

American
Journal of
PHYSIOLOGY

Index to Volumes 121-167
(1938-1951)

Prepared by

Williamina A. Himwich, Ph.D.

*Thudichum Psychiatric Research Laboratory
Galesburg State Research Hospital*

The American Physiological Society
Washington, D. C.

Copyright 1954 by
THE AMERICAN PHYSIOLOGICAL SOCIETY

PRINTED IN THE UNITED STATES OF AMERICA
BY WAVERLY PRESS, INC., BALTIMORE, MARYLAND

Guide to Use of Index

AN INDEX always represents a compromise between the indexer's desire to arrange information in neat parcels and the reader's urgent wish to find what he wants quickly under the term which comes first to his mind. In this index, we have attempted to consider the reader's desires first without sacrificing reasonable economy and bulk.

It is hoped that users will read this introduction carefully since it explains the way in which the index has been arranged, and an understanding of this arrangement will add greatly to the ease of usage.

PART I. PRINCIPLES

The author and subject index have been combined in one alphabet. The subject index resembles that of *Chemical Abstracts*. The phrases modifying the subject headings have been made as short as possible—in each case only the major aspect of the paper in relation to the specific subject heading is given. For example, a paper entitled "Bone and Tissue Phosphatase in Experimental Scurvy" would be indexed under BONE with the phrase, phosphatase in scurvy; but with no mention in this place that rib was the specific bone studied, and that tissue such as muscle were also used. Entries would be made also under RIB and MUSCLE as well as under SCURVY and PHOSPHATASE.

In most cases the specific not the general subject heading has been chosen for the index. When a general subject heading has been used, the material listed under it is of so general a nature as to preclude the use of a specific heading. The user wishing all material on a given broad subject, such as antihistaminics, should look in the list of subject headings in Part II for the names of antihistaminic substances and then look in the index under each of the subject headings given.

Wherever practical the page number used refers to the exact page in the article on which the information is to be found; or when a given piece of information is mentioned more than once, the *first* page on which it is mentioned. Where it was not practical to do this, the reference is to the first page of the paper.

Many of the subject headings are followed by a definitive word or phrase such as PROTEIN (DIETARY) or SODIUM (TISSUE METABOLISM). In other cases a preposition or phrase which can be added to the modifying phrase under the subject heading has been used such as CAT (studies of — in); with this phrase, the modification *adrenalectomy* would read *studies of adrenalectomy in cat*.

For every paper the following items studied or described by the investigators were indexed:

- | | |
|---------------------------------------|---|
| 1) Organ or anatomical system | 4) Special tests, measurements, and apparatus |
| 2) Physiological states and functions | 5) Chemical substances or compounds |
| 3) Pathological condition | 6) Species of animals |

1) **Organ or Anatomical System.** Wherever possible, the anatomical entries appear under the name of the organ or system, not under the adjective referring to that organ or system—e.g. *stomach* rather than gastric; *liver*, not hepatic. This rule has been modified, however, to take care of usage; we normally speak and write of *cardiac output*, not *heart output*. In cases such as the latter, if the bulk of material was small enough, the papers have been indexed in both places, i.e. under CARDIAC OUTPUT and under HEART; whenever the bulk of material made such double entry impractical, cross references are given.

Large groups of entries under an organ have been broken into small groups for ease of searching. Where a paper seemed to fit equally well into two of the small groups, an entry has been made in each group. This does not mean, however, that all entries under HEART METABOLISM deal only with metabolism or, conversely, that none of the other papers under HEART— have anything to do with metabolism. The user should bear in mind that these groupings are relative and are primarily to aid searching. For a definitive search of *all* material on *metabolism of the heart*, all of the entries under HEART— must be scanned.

2) **Physiological States and Functions.** We have followed common usage in choosing subject headings in this category regardless of the merits of less popular synonyms—e.g. *anoxia* not hypoxia. The less commonly used terms have been included with a *see* reference to the more popular terms. In cases where the bulk of material was too large to duplicate under both the anatomical and the physiological heading, the anatomical heading has been given preference.

3) **Pathological Condition.** The same policy as in (2) above has been used with names of diseases and pathological conditions.

4) **Special Tests, Measurements and Apparatus.** New apparatus, tests and methods of determination have been indexed under the thing measured, and/or under the name of the apparatus or test.

5) **Chemical Substances or Compounds.** The adequate indexing of pharmacologically active compounds is one of the most difficult problems in an index such as this one. A compound may have a chemical name, one or more trade names, a name approved by the AMA Council on Pharmacy, a common name and a pharmaceutical house number such as F933 (the Forneau number for 2-Piperidylmethyl), 11,4-Benzodioxan. An author may use one or more of these names in a paper, a user of the index may know only one of them. We have attempted to list the references to a drug under the most commonly used term, judging in part from the use of such terms in this journal. In addition we have provided a cross-reference pattern from the other names. Users are referred to the index to Vol. I, Part II, of *Excerpta Medica* for a more detailed list of synonyms of currently used drugs.

In regard to the chemical names we have used the names preferred by *Chemical Abstracts*, but have arranged them in direct rather than in inverted order. *Chemical Abstracts* uses PYRIDINE, 2-[(DIMETHYLAMINOETHYL)-2-THENYLAMINO] as an entry; in this index that compound would appear as 2-[(2-DIMETHYLAMINOETHYL)-2-THENYLAMINO], PYRIDINE and would be alphabetized under DI. Substituted compounds of the same parent chemical structure with similar pharmacological properties have been grouped under the name of the parent compound to save duplication of entries, e.g. all androstanediols such as 3α , 17β , *acetate-3 Androstanediol*, are entered under ANDROSTANEDIOLS. If an author has used a chemical name other than the preferred one, that name has also been included in the index with the necessary cross reference.

As with the anatomical headings, many large groups of entries have been broken into smaller groups for convenience in searching; e.g. PROTEIN (DIETARY); PROTEIN (AS TISSUE CONSTITUENT); PROTEIN METABOLISM. The entries in these small groups are not mutually exclusive, and if a complete search for protein metabolism is needed all of the groups must be scanned.

6) **Species of Animal.** Every article has been indexed under the experimental animals used, but no attempt has been made to distinguish between strains or between young and adult animals. (Where age is an important factor the article has been included under the subject heading AGE.)

In the case of experimental work on human beings all papers have been listed under MAN. All contributions on women have also been listed under WOMAN.

The modifications used under animal names have been shortened as much as possible. For example, all papers on adrenalectomy in cats have been grouped together; as have all papers of studies on effects of epinephrine in cats. These references to the animal used have been included for the convenience of the user who is interested in the characteristics of a particular species of animal.

PART II. LIST OF SUBJECT HEADINGS

The problem of *see also* references is a major one in the preparation of any subject index. *Quarterly Cumulative Index Medicus*, *Chemical Abstracts* and *Biological Abstracts* use many *see also* references; until recently, *Current List* solved the problem by not using any. For a complete pattern of *see also* references under a heading such as VITAMIN B-COMPLEX, the reader should be referred to each member of the complex used as a heading, e.g. THIAMIN, RIBOFLAVIN; each disease name under which the effects of either a lack of or the presence of a member of the vitamin B-complex is indexed, e.g. HYPERTHYROIDISM, BERI-BERI; each organ or tissue affected, e.g. NERVE; each physiological state or reaction, e.g. CHRONAXIE, and so on. Moreover, each subject heading referred to should also lead to all other subject headings in the original list and back to the vitamin B-complex. The magnitude of such a pattern is such that it can seldom be adhered to consistently throughout an entire index. Such a pattern would also require an enormous amount of space.

Indexers have long questioned how thoroughly *see also* references are used. At best they probably serve only as a reminder to the user of related subject headings under which he might find items of interest. Theoretically the problem would be solved by gathering together all entries under all pertinent specific and general headings. If this procedure were used, it should be followed consistently or the user would be misled and would miss many pertinent entries. There are a number of reasons against its use. The first, of course, is that the large bulk of material which would result would not only make the index exceedingly bulky and expensive, but would also increase the number of entries under each subject heading and reduce the ease with which the index could be scanned. In the second place, it is doubtful if any indexer could manage to list *all* items under *all* related headings so that *all* users could obtain *all* the information needed under *one* subject heading.

In this index, we have attempted to solve the problem of giving the user the information he needs about related subject headings by including lists of subject headings in the introduction. These subject headings have been divided primarily into five of the categories used for indexing, i.e. ORGAN OR ANATOMICAL SYSTEM; PHYSIOLOGICAL STATES AND FUNCTIONS; PATHOLOGICAL CONDITIONS; CHEMICAL SUBSTANCE AND COMPOUNDS; and SPECIES OF ANIMAL STUDIED. Each group has been broken into smaller groups, the members of each sub-group having a single axis of categorization in common. The axis used, however, shifts from sub-group to sub-group, e.g. all body fluids are grouped together on the physical basis of being fluid; all nerves are grouped together on the anatomical basis of being nerves; but all members of the digestive tract are grouped together on the basis of function. The headings given to the various sub-groups should be labeled "subject headings referable to" the digestive tract, to the body fluids, etc., as some terms not strictly following the axis for categorization have been included, e.g. CHLORIDE SPACE and SODIUM SPACE have been placed in the list with INTRACELLULAR FLUID and EXTRACELLULAR FLUID. No attempt has been made to arrive at groups which are completely logical—usability not logic has been the guiding principle. Subject headings which did not group conveniently on any one axis used have been allowed to stand alone near a list of related subject headings.

Not all the subject headings have been used. The lists have been kept to a

minimum to permit ease of scanning. Many have been left out, especially in the list of chemical subject headings. Where several subject headings begin with the same word or syllable, only the common part of the heading has been used, e.g. Digit—for DIGITALIS, DIGITOXIN etc. This will provide the user with a clue to the part of the alphabet in which he should look for material on the subject.

It is hoped that the user will make extensive use of these lists when searching for anything except a very specific subject. For example, if he wishes all material on antihistaminics he can find under the major category of CHEMICAL SUBSTANCES the list of antihistaminics indexed; namely, ANTISTINE, BENADRYL, DECAPRYN, HISTADYL, PYRIBENZAMINE and THEPHORIN. He then can look in the index for those in which he is interested. He can also find under PATHOLOGICAL CONDITIONS those pathological conditions in which antihistaminics might have been used, e.g. ANAPHYLACTIC SHOCK, ALLERGIC RHINITIS, HAY FEVER etc.

SUBJECT HEADINGS REFERABLE TO ANATOMICAL TERMS

| SYSTEMS ¹ | PARTS OF BODY | | |
|-------------------------|---------------------|------------|--------------|
| Autonomic nervous | Abdomen | Fur | Pleura |
| Cardiovascular | Arm | Hair | Skin |
| Central nervous | Body— | Hands | Surface area |
| Olfactory | Chest wall | Head | Tail |
| Parasympathetic nervous | Extracellular space | Knee joint | Teeth |
| Reproductive | Eyelids | Leg | Thorax |
| Reticulo-endothelial | Feathers | Limbs | Toe |
| Sympathetic nervous | Finger— | Mesentery | Viscera |
| Sympathetico-adrenal | Foot | Pelvis | Wrist |
| Vago-insulin | Forehead | Pericard— | |
| Vasomotor | | Periton— | Carcass |

| FLUIDS | BLOOD, FORMED ELEMENTS | | |
|----------------|------------------------|---------------|---------------|
| Amniotic— | Exudates | Plasma | Eosinophiles |
| Arterial | Gastric— | Prostatic— | Erythrocytes |
| Bile | Hydatic cyst— | Saliva | Granulocytes |
| Blood— | Intestinal— | Seminal— | Leukocytes |
| Body— | Intracellular— | Serum— | Lymphocytes |
| Cerebrospinal— | Lymph | Sodium space | Neutrophiles |
| Chloride space | Milk | Spermatocele— | Platelets |
| Chyle | Pancreatic— | Sweat | Reticulocytes |
| Colostrum | Pericardial— | Synovial— | Thrombocytes |
| Extracellular— | Peritoneal— | Venous | |

| TISSUES, CELLS | RESPIRATORY SYSTEM | GLANDS ¹ | ENDOCRINE GLANDS |
|----------------|--------------------|---------------------|----------------------|
| Brown adipose | Bronchi | Brunner's | Adrenal— |
| Cell culture | Lungs | Cowper's | Anterior pituitary |
| Cells | Nasal pharynx | Harderian | Islets of langerhans |
| Epithelium | Nose | Lacrimal | Ovaries |
| Erythroid | Pulmonary | Mammary | Parathyroid |
| Melanophores | Respiratory tract | Salivary | Pituitary— |
| Mitochondria | Trachea | Submaxillary | Posterior pituitary |
| Myeloid | | Sweat | Testes |
| Tissue | | | Thymus |
| | | | Thyroid |

| CARDIOVASCULAR SYSTEM | ARTERIES ¹ | | VEINS ¹ |
|-----------------------|-----------------------|---------------------|--------------------|
| Arteries | Aorta | Femoral | Coronary |
| Blood vessels | Bronchial | Hepatic | Inferior vena cava |
| Capillaries | Carotid | Pulmonary | Jugular |
| Cardiac— | Common iliac | Renal | Muscularis |
| Cardiovascular | Coronary | Splenic | Portal |
| Coronary— | Digital | Superior mesenteric | Postcaval |
| Heart— | Ductus arteriosus | Umbilical | Pulmonary |
| Luminal vessels | | | |
| Thebesian vessels | | | |
| Vas— | | | |
| Veins | | | |

¹ Look under names of system, gland, artery or vein, i.e. cardiovascular, Brunner's, aorta and coronary respectively.

| LYMPHATIC SYSTEM | SUPPORTING STRUCTURES | REPRODUCTIVE SYSTEM | |
|------------------|-----------------------|---------------------|---------------------|
| Lymph | Bone | Amnion | Reproductive system |
| Thoracic duct | Cartilage | Corpus luteum | Semen |
| | Epiphyseal cartilage | Deciduomata | Seminal vesicles |
| | Femur | Epididymus | Sexual skin |
| | Ligamentum nuchae | Fallopian tubes | Spermatozoa |
| | Skull bones | Ovaries | Testes |
| | Synovial membrane | Oviduct | Umbilical cord |
| | Tendon | Ovum | Uterus |
| | Tibia | Placenta | Vagina |
| | | Prostate | |

| URINARY TRACT | MUSCLES ² | | EYE |
|-----------------|----------------------|------------------|----------------------|
| Bladder | Anterior tibial | Lumbar | Aqueous humor |
| Glomerul— | Ciliary | Papillary | Eye |
| Kidney— | Diaphragm | Quadriceps | Iris |
| Neph— | Extraocular | Rectus abdominis | Lens |
| Renal— | Gastrocnemius— | Respiratory | Nictitating membrane |
| Ureter | Interosseous | Retractor penis | Pupil |
| Vesical trigone | Intestinal | Sartorius | Retina |
| | Latissimus dorsi | Semitendinosus | |
| | Locomotor | Tibialis anticus | |

| ALIMENTARY TRACT | | NERVES ² | |
|------------------|--------------------|---------------------|-------------------|
| Alimentary tract | Gastric— | Aortic | Plantar |
| Anus | Hepatic— | Cardiac | Popliteal |
| Appendix | Ileum | Chorda tympani | Sciatic |
| Bile duct | Intestine— | Celiac | Splanchnic |
| Cecum | Jejunum | Femoral | Splenic |
| Cloaca | Liver— | Glossopharyngeal | Third cranial |
| Colon | Muscularis mucosae | Hypogastric | Tibial |
| Crop-sac | Pancreas | Hypoglossal | Trigeminal |
| Duodenum | Pylorus | Lingual | Vagus |
| Esophagus | Rectum | Motor | Vestibular |
| Feces | Spleen | Olfactory | |
| Flatus | Stomach— | Optic | Meissner's plexus |
| Gall bladder | | Pelvic | |
| | | Phrenic | |

| NERVOUS SYSTEM | | | |
|--------------------|------------------------|--------------|------------------------|
| Cardiac ganglion | Axons | Neurons | Adrenotropic receptors |
| Ganglion— | Endoneural spaces | White matter | Aortic body |
| Sensory ganglia | Motor nerves | | Carotid— |
| Sympathetic n. s.— | Nerve— | | Chemoreceptors |
| | Neuromuscular junction | | Proprioceptors |

| CENTRAL NERVOUS SYSTEM | | | |
|-----------------------------------|---------------------------|---------------------------|---------------------------------|
| Blood-cerebrospinal fluid barrier | Cerebrum | Hemato-encephalic barrier | Occipito-parieto-temporal lobes |
| Brain stem | Corpora quadrigemina | Hippocampus | Pallium |
| Brain | Corpus callosum | Hypothalamus | Parietal lobes |
| Caudate nucleus | Cortic— | Internal capsule | Pons |
| Central n. s. | Forebrain | Medulla oblongata | Spinal cord |
| Cerebellum | Fourth ventricle | Midbrain | Telencephalon |
| Cerebral— | Frontal lobes | Neostriatum | Thalamus |
| | Geniculate bodies, medial | | |

² Look under name of muscle, nerve, i.e. anterior tibial, aortic.

AREAS, CENTERS, TRACTS, PATHWAYS OF C.N.S.

| | | | |
|----------------------------|----------------------------|-------------------------------|-------------------|
| Acoustic area | Optic tract | Red nucleus | Suppressor areas |
| Anterior olfactory nucleus | Paraventricular nuclei | Respiratory center | Vasomotor centers |
| Auditory nervous pathways | Pyramidal tracts | Somatic centers | Visual pathway |
| Extrapyramidal tracts | Pyriiform-amygdaloid areas | Spinal cardiovascular centers | Vomiting centers |
| Motor nuclei | | | |

SUBJECT HEADINGS REFERABLE TO PHYSIOLOGICAL STATES OR CONDITIONS³

| CARDIOVASCULAR | REPRODUCTION | | |
|-------------------------|--------------------------|---------------------|------------------------|
| Arterial— | Anestrus | Labor (Parturition) | Parturition |
| Capillary | Birth | Lactation | Pregnancy |
| Circulation | Coitus | Maternal behavior | Pseudopregnancy |
| Coronary resistance | Ejaculation | Menarche | Puberty |
| Erythropoiesis | Estrous cycle | Menstruation | Reproduction |
| Peripheral resistance | Fertility | Mitosis | Sex |
| (Vascular) | Fertilization | Ovulation | Weaning |
| Pulse | Implantation | | |
| Vascular— | | | |
| Vaso— | | | |
| Venous— | | | |
| NEUROMUSCULAR | | ALIMENTARY | |
| Chronaxie | Neuromuscular— | Absorption | Hunger |
| Contract— | Re-innervation | Appetite | Intestinal— |
| Deafferentation | Recruitment | Chloresis | Pancreas |
| Extensor tone | Refractory period | Coprophagy | Peristalsis |
| Facilitation | Stretch | Defecation | Renal |
| Incoordination | Summation | Deglutition | Salivation |
| Inhibition | Suppression | Digestion | Thirst |
| Irritability | Transmission— | Emesis | |
| Innervation | Treppe | Gastric— | RENAL |
| Nerve— | | Hepatic— | Urination |
| METABOLISM | VISION | SPECIAL SENSES | SKIN, HAIR, FEATHERS |
| Basal metabolic rate | Accommodation | Hearing | Molting |
| Deamination | Contrast discrimination | Smell | Palmar skin resistance |
| Detoxification | Dark adaptation | Taste | Perspiration |
| Energy metabolism | Light adaptation | Touch | Sweating |
| Gluco— | Perception, form | | Temperature— |
| Glyco— | Peripheral motion acuity | | |
| Metabolism | Reading | | |
| Oxygen consumption | Vision | | |
| Respira— | | | |
| Specific dynamic action | Protanope | | |
| (of) | Trichromat | | |
| Tolerance | | | |

³ See also under names of organs.

| POSTURE, MOTION | CNS | CONDITION, ADAPTIVE STATE | |
|---------------------------------|---------------------|---------------------------|-------------------|
| Energy transfer (mechanical) | Bulbar excitability | Activity | Acclimatization |
| Locomotion | Consciousness | Adaptation | Accommodation |
| Posture | Feeling tone | Development | Alarm reaction |
| Standing | Learning | Excitability | Diurnal variation |
| Structural orientation | Memory | Growth | Endurance |
| Vestibular function | Emotion | Inactivity | Healing |
| Walking | Excitement | Motility | Heat exchange |
| RESPIRATORY | Fear | Death | Hibernation |
| Cough | Rest | Parabiosis | Homostasis |
| Intrathoracic pressure | Sleep | Aged | Reaction time |
| Minute volume | | Newborn | Strain |
| Panting | | Longevity | Tachyphylaxis |
| Pulmonary | | | Temperature—— |
| Respira—— | | | Weaning |
| Resuscitation | | | Work |
| Sighing | | | |
| Yawning | | | |

REFLEXES⁴

| | | | |
|--------------------|------------------|-----------------------|-------------------|
| Bainbridge | Geotropic | Pharyngeal | Spinal |
| Buffer | Hering-Breuer | Plantar | Stretch |
| Carotid body | Inhibitory | Proprioceptive | Tendon |
| Carotid-mandibular | Joint | Pupillary constrictor | Thoracic pressure |
| Chemoreflex | Knee jerk | Reflex | Toe spreading |
| Conditioned | Labyrinthine | Respiratory | Vagal |
| Depressor | Linguo-maxillary | Righting | Vasomotor |
| Flexion | Mandibular | Salivation | Vestibular |
| Gasping | Myenteric | | |

SUBJECT HEADINGS REFERABLE TO PATHOLOGICAL STATES OR CONDITIONS⁵

| CNS | THYROID | EYE | BLOOD, BLOOD CELLS |
|------------------------|-----------------|-----------------|--------------------|
| Analgesia | Goiter | Cataract | Agranulocytosis |
| Cephalogryic—— | Hyperthyroidism | Exophthalmos | Anemia |
| Coma | Hypothyroidism | Hippus | Hemophilia |
| Concussion | | Hypermetropia | Leukemia |
| Convulsions | | Lacrimation | Leukocytosis |
| Epilepsy | | Night blindness | Leukopenia |
| Narcosis | | Nystagmus | Polycythemia |
| Schizophrenia | | Papilledema | Thrombocytopenia |
| Wallerian degeneration | | | Thrombopenia |
| Motion sickness | | | |
| Nausea | | | |
| Diencephalic lesions | | | |
| Mesencephalic lesions | | | |

BLOOD CONSTITUENTS⁶

| BLOOD CONSTITUENTS ⁶ | RESPIRATORY SYSTEM |
|---------------------------------|---------------------|
| Acapnia | Anoxia |
| Acidosis | Apneusis |
| Alkalosis | Asphyxia |
| Anoxemia | Hyperpnea |
| | Hyperventilation |
| | Respiratory failure |

⁴ Look under name of reflex, i.e. Bainbridge.

⁵ See also under name of organs. ⁶ See also under name of constituents.

CARDIOVASCULAR SYSTEM

Aeroembolism
Circulatory failure
Congestion
Hemorrhage
Hemostasis
Hypertension
Hypotension

Ischemia
Occlusion
Orthostatic insufficiency
Plethora
Syncope

Bradycardia
Cor pulmonale
Interauricular septal defect
Mitral stenosis
Tachycardia

ALIMENTARY TRACT

Anorexia
Cirrhosis
Distention
Gastric acidity, low
Jaundice
Liver, fatty
Ulcers

MUSCLE-NERVE

Clonus
Hypertrophy
Muscular dystrophy
Myopathy
Myotonia

HAIR

Achromotrichia
Alopecia

BODY TEMPERATURE

Fever
Heat exhaustion
Hyperthermia
Hypothermia
Shivering

URINE FORMATION

Anuria
Diuresis
Oliguria
Polyuria

Paralysis
Tetany

Burns
Sunburn

ALLERGIC

Allergy
Anaphylaxis
Hay fever
Histamine shock
Rhinitis, allergic

NEOPLASMS

Carcinoma
Lymphosarcoma
Neoplastic disease
Tumors

DIETARY, METABOLIC⁷

Alcoholism
Arthritis
Diabetes
Hyperglycemia
Hypervitaminosis
Hypoglycemia
Inanition
Ketosis
Obesity
Rickets
Scurvy

CAUSED BY INVADERS

Arthritis
Coccidiosis
Coryza
Diphtheria
Hepatitis
Malaria
Pancreatitis
Tuberculosis

MISCELLANEOUS

Anxiety
Cryptorchidism
Edema
Erythema
Fear

Frost-bite
Gangrene
Hypericium
Inflammation
Insomnia

Lead poisoning
Lithiasis
Lymphoid necrosis
Osteoporosis
Pain

Radiation syndrome
Shock—
Trench foot

EXPERIMENTAL PREPARATIONS

Biliary fistula
Decapitated head
Decerebrate
Eck fistula
Fistula
Head-heart
Heidenhain pouch
Langendorff heart
Medullary animal

OPERATIVE PROCEDURES

Adrenalectomy
Castration
Denervation
Evisceration
Frontal lobectomy
Hemidecortication
Hepatectomy
Hypophysectomy
Laparotomy

Nephrectomy
Nephro-omentopexy
Ovariectomy
Pancreatectomy
Parathyroidectomy
Pneumothorax
Spinal cord, transection
Splanchnicotomy

Splenectomy
Sympathectomy
Thymectomy
Thyroidectomy
Thyroparathyroidectomy
Vagotomy

⁷ For deficiency diseases, see also under name of substance, e.g. thiamin deficiency.

SUBJECT HEADINGS REFERABLE TO CHEMICAL SUBSTANCES

ELEMENTS AND COMPOUNDS

Cations

| | | | |
|-----------|-----------|-------------|--------------|
| Aluminum | Cobalt | Molybdenum | Uranium |
| Ammonia | Copper | Phosphorus | Vanadium |
| Arsenic | Deuterium | Potassium—— | Zinc |
| Barium | Gold—— | Rubidium | |
| Beryllium | Iodine—— | Sodium—— | Colloid |
| Boron | Iron | Thorium | Crystalloid |
| Calcium | Lithium | Tin | Electrolytes |
| Carbon | Magnesium | Titanium | |
| Cesium | Manganese | | |
| Chrom—— | Mercury | | |

Gases

Argon
Carbon dioxide
Carbon monoxide
Helium
Krypton (radioactive)
Nitrogen
Nitrous oxide
Oxygen
Radon

Anions

Arsenate
Arsenite
Azide
Bicarbonate
Bromide
Chloride

Cyanide
Ferrocyanides
Fluorides
Nitrate
Oxalate
Phosphate

Sulfates
Tetrathionate
Thiocyanate
Thiocyanide
Thiols
Thiosulfate

FOOD AND TISSUE CONSTITUENTS

Carbohydrates

| | |
|--------------|-----------|
| Arabinose | Maltose |
| Carbohydrate | Mannose |
| Cyclohexanol | Pectin |
| Fructose | Pentose |
| Galactose | Raffinose |
| Glucose | SIH |
| Glycogen | Sorbose |
| Inulin | Starch |
| Heparin | Sucrose |
| Lactose | Sweetose |
| | Xylose |

Lipids

| | |
|---------------|---------------|
| Butyrate | Triacetin |
| Capric acid | Tributylin |
| Caproate | Tricaproin |
| Caprylic acid | Tricaprylin |
| Cholesterol | |
| Fat—— | Cardiolipin |
| Fatty acids | Cephalin |
| Glycerol | Lecithin |
| Lipids | Lysolecithins |
| Oleic acid | Phospholipids |
| Steroids | Sphingomyelin |

Proteins

| | | | |
|-------------------------|----------------------|---------------|----------------|
| Actomyosin | Ferric beta-globulin | Globulin | Myosin |
| Albumin | Ferritin | Glutathione | Ovalbumin |
| Arsanilac-azo-ovalbumin | Fibrin | Hemoglobin | Oxyhemoglobin |
| Carboxyhemoglobin | Fibrinogen | Lactalbumin | Oxypolygelatin |
| Casein | Gastric mucin | Methemoglobin | Peptones |
| Chromatin | Gelatin | Mucoproteins | Protein—— |
| Collagen | Globin | Myoglobin | |

Amino Acids

| | | | |
|---------------|----------------|---------------|-------------|
| Alanine | Cystine | Histidine | Threonine |
| Allothreonine | Diiodotyrosine | Isoleucine | Tryptophane |
| Amino acids | Dopa | Leucine | Tyrosine |
| Arginine | Glutamic acid | Lysine | Valine |
| Aspartic acid | Glutaric acid | Methionine | |
| Cysteine | Glycine | Phenylalanine | |

Metabolites

| | | | |
|--------------------------------|--------------------|------------------------------|----------------------|
| Acetaldehyde | Fumarate | β -Hydroxybutyric acid | Phosphoglyceric acid |
| Acetoacetate | Glyceraldehyde | Lactate | Phosphopyruvic acid |
| Acetone— | Guanidoacetic acid | Maltate | Phosphorylcholine |
| Citrate | Hexose phosphates | Maleic acid | Pyruvate |
| Creatin— | Hippuric acid | Malonate | Succinate |
| Dehydroacetate | Histamine | N-Methylnicotinamide | Trigonelline |
| Disodium glycerol phosphate | | Oxalacetate | Urea— |
| | | | Uric acid |

Energy-Rich Phosphates

Acyl phosphate
Adenosine—
Phosphocreatine

Nucleotides, Purines

Adenine
Adenosine
Adenylic acid
Cytosine

Guanine
Inosinic acid
Nucleic acid
Pentnucleotide

Thymine
Uracil
Uric acid
Xanthosine

Vitamins

Vitamin A—
Carotene

Niacin
Nicotinamide
Pantothenic acid
Pyridoxine
Riboflavin
Thiamin

Vitamin P flavonoids

Animal protein factor
Factor W
Filtrate factor
Lipotropic factors
Substance P

Vitamin B₁₂
Folic acid
Pteroyldiglutamyl
glutamic acid

Vitamin E—
Tocopherols

Vitamins D

Cod liver oil
Wheat germ oil

Vitamin B-complex
Aminobenzoic acids
Biotin
Choline
Inositol

Vitamin K—
Menadione

Ascorbic acid
Dehydroascorbic acid
Dehydroglucoascorbic
acid
Dehydroisoascorbic acid
Glucoascorbic acid
D-Glucoascorbic acid
Isoascorbic acid

Miscellaneous

Necrosin
Pyrexin
Leukotaxine

Thromboplastin

Prothrombin

Heme

Malononitrile

Urogastrone
Uropancreatone

VDM
VEM

Angiotonin
Bradykinin
Enkephalin
Hypertensinogen
Renin

ENZYMES AND INHIBITORS

Enzymes

Amylase
Amylopsin
Arginase
Carbonic anhydrase
Catalase
Choline oxidase
Cholinesterase
Chymotrypsin
Coccarboxylase
Cytochrome—
Dehydrogenase

Diastase
Enzymes
Esterase
Fibrinogenase
Fibrinolysin
Glutaminase
Hemolysins
Hexokinase
Histaminase
Hyaluronidase
Hypertensinase

Invertase
Lipase
Lysins
Papain
Pepsin
Peptidase
Phosphatases
Phosphorylase
Potato oxidase
Rennin
Respiratory enzymes

Secretinase
Staphylokinase
Succinic dehydrogenase
Succinoxidase
Thromboplastic enzyme
Thrombin
Transsulfurase
Trypsin
Urease
Uropepsin

Anti-Cholinesterases

Diisopropylfluoro-
phosphate
Hexaethyltetraphosphate
Physostigmine
Tetraethylpyrophosphate

Enzyme Inhibitors⁸

Alloxan
Alpha-naphthyl thiourea
Azide
Colchicine
Cyanide

DDT
Diphosgene
Fluoride
Fluoroacetate
Iodoacetic acid

Nitrogen mustard
Oxygen—
Phlorhizin
Xanthopterin

⁸ See also under oxygen consumption.

HORMONES

| | | | |
|----------------------|------------------------|--------------------------|-----------------------|
| <i>Androgens</i> | <i>Estrogens, etc.</i> | <i>Adrenal Gland</i> | |
| Androgens | Dienestrol | Adrenocortical hormones | 11-Desoxy-17-hydroxy- |
| Androstadienols | Estr— | Corticosterone | corticosterone |
| Androstanediols | Benzestrol | Cortisone | Desoxycorticosterone |
| Androstanediones | | 11-Dehydro- | 17-Ketosteroids |
| Androstanols | Pregnan— | corticosterone | |
| Androstenediones | Pregnen— | | Epinephrine |
| Androstenediols | Progesterone | | Nor-epinephrine |
| Androsterones | | | Sympathin |
| Etiocholanol— | Diethylstilbesterol | | |
| Testosterone— | Stilbestrol | | |
| | Steroids | | |
| <i>Pituitary</i> | | <i>Gastro-Intestinal</i> | <i>Other</i> |
| Adrenocorticotropin | Posterior pituitary | Cholecystokin | Parathyroid— |
| Adrenotropic factor- | Pituitrin | Enterocrinin | |
| Anterior pituitary | Pitressin | Enterogastrone | Diiodotyrosine |
| hormones | Pitocin | Gastrin | Diiodothyronine |
| Gonadotropins | | Pancreozymin | Thyro— |
| Growth hormone | Mare serum hormone | SI (pancreozymin & | Thyroxin |
| Intermedin | Pituitary secretagogue | secretin) | |
| Lactogenic hormone | | Secretin | Lipocaic |
| Thyrotropic hormone | | <i>Neuro-</i> | Insulin |
| | | Acetyl-beta- | |
| | | methylcholine | |
| | | Acetylcholine | |

DRUGS

| | | | |
|---------------------------|------------------------|--------------------------|--------------------------|
| <i>Hypnotics</i> | <i>CNS Depressants</i> | <i>Antiseptics</i> | <i>Anticonvulsants</i> |
| Chloral— | Acetylene | Alkyl resorcinols | Diphenyl hydantoin |
| Chlorobutanol | Alcohol | Aseptorform | Hydantoin |
| Paraldehyde | Anesthesia | Astringents | Mesantoin |
| <i>Analgesics</i> | Avertin | Chloramine-T | Methyl-phenyl-ethyl- |
| Acetanilide | Bromide | Cresols | hydantoin |
| Amidone | Chloralosane | Eugenol | Trimethadione |
| Antipyrine | Chloroform | Formaldehyde | <i>Local Anesthetics</i> |
| | Cyclopropane | Formalin | Cocaine |
| Salicylaldoxime | Ether | Hexylresorcinol | Novocain |
| Salicylic acid | Nitrous oxide | Phenol | Procaine |
| | Urethane | Resorcinol | Tetracaine |
| <i>Barbiturates</i> | | | |
| Amytal | Evipal | Phenobarbital | Sodium N-hexylethyl bar- |
| Diallylbarbituric acid | Hexobarbital | Seconal | bituric acid |
| Ethyl-β-methylallylthio- | Ortal | Sodium barbital | Thiopental |
| barbituric acid | Pentobarbital | Sodium (1,3-dimethyl | V-12 |
| | | butyl) ethyl barbiturate | |
| <i>Cardiac Glycosides</i> | <i>Antibiotics</i> | <i>Bile Acids, Salts</i> | <i>Mercurials</i> |
| Digit— | Aureomycin | Bile— | Esidrone |
| Lanatosides | Neomycin | Chalagogues | Mapharsen |
| Ouabain | Penicillin | Choleretic agents | Meralluride |
| | Streptomycin | Deoxycholate | Merc— |
| | | Sodium— | Mersalyl |

Antihistaminics

Antistine
Benadryl
Decapryn
Histadyl
Pyribenzamine
Thephorin

Ergot Derivatives

Dihydroergo——
Ergo——
Tyramine

Atropine-like

Syntropan
Atropine
Hyoscine
Hyoscyamine

Relaxants

Myanesin

2-Methyl naphthoquinone
Nicotine
Papaverine
Tetraethylammonium
ions
Tetramethylammonium
iodide

Sympathomimetic]Drugs

Amphetamine
Cobefrin
Dexedrine
Ephedrine
Epinine

Kephrin
N-Methyl paredrine
Neosynephrin
Paredrine
Priscoline

Privine
Prostigmine
Sympathomimetic
amines
Synephrin

Sulfa Drugs

Acetylsulfanilamide
Neoprontosil
Phthalylsulfathiazole
Succinyl sulfathiazole
Sulfa——
Thiophene-2-sulfonamide

CNS Stimulants⁹

Amphetamine
Caffeine
Camphor
Dexedrine

Metrazol
Nikethamide
Pentamethylene tetrazol
Picrotoxin

Strychnine
Theobromine
Theophylline

Curare

Curare
 β -Erythroidine
Tubocurarine

Foods

Beef heart
Bitters
Corn
Corn syrup
Eggs
Garlic
Liver
Meat
Oats
Parsley
Pork
Protein
Salt mixture
Soybeans
Tobacco

Sea water

Butter
Cod liver oil
Corn oil
Cottonseed oil
Fat
Lard
Margarine
Mineral oil
Mustard oil
Olive oil
Wheat germ oil

Diets, Dietary Procedures

Cabbage——
Calorie——
Carbohydrate——
Carrot
Cholesterol——
Diet
Fat——
Food consumption

High salts
Ketogenic
Overfeeding
Paired feeding
Potassium-low
Self selection
Sham feeding
Single food choice

*MISCELLANEOUS**Antigens, Vaccines*

Antigen N
Toxins
Typhoid——

Dyes, Indicators, Pigments

Carmine
Dyes
Evans blue
Fluorescein
Hypericin

Indicator yellow
Indigo
Methylene blue
Niagara sky blue
Phenol red

Phenolsulphonphthalein
Trypan blue
Vital red
Leucopterin

Radio-opaque

Diodrast
Iopax
Lipiodol
Neoipax
Skiodan

Detergents, Soaps

Calgon
Saponin
Soap
Sodium lauryl sulfate
Triton

Absorbents

Ion exchange resins
Kaolin
Norite
Permutit Z

⁹ See also under convulsions.

SUBJECT HEADINGS REFERABLE TO SPECIES OF ANIMALS

DOMESTIC, LABORATORY ANIMALS

| | |
|------------|---------|
| Calf | Hamster |
| Cat | Horse |
| Cattle | Mouse |
| Dog | Ox |
| Donkey | Pig |
| Goat | Rat |
| Guinea pig | Sheep |

INFRA-HUMAN PRIMATES

| |
|------------|
| Baboon—— |
| Chimpanzee |
| Gibbon |
| Orang-utan |

MAN

| |
|------------------|
| Children |
| Infants |
| Newborn |
| Peruvian Indians |
| Man |
| Woman |

OTHER MAMMALS

| | |
|-----------|------------------|
| Antelope | Deer |
| Armadillo | Eland |
| Bat | Ferret |
| Bear | Fox |
| Beaver | Ground squirrel |
| Boar | Indian blackbuck |
| Camel | |

| | |
|----------|----------|
| Kinkajou | Opossum |
| Lion | Peccary |
| Llama | Raccoon |
| Mink | Seal |
| Muskrat | Sloth |
| Ocelot | Squirrel |
| | Weasel |

BIRDS

| |
|---------|
| Birds |
| Chick—— |
| Dove |
| Duck |
| Pigeon |
| Swift |
| Turkey |
| Wren |

FISH, MOLLUSCS

| |
|------------------|
| Cambarus clarkii |
| Chub |
| Dogfish |
| Dolphin |
| Eel |
| Fish |
| Flounder |

| | |
|-------------|----------|
| Goldfish | Shiner |
| Haddock | Squid |
| Limulus | Stingray |
| Parrot fish | Sturgeon |
| Salmon | Sucker |
| Sea bass | Toadfish |
| Shark | |

REPTILES, AMPHIBIA

| | |
|-----------|----------------|
| Alligator | Snakes |
| Crocodile | Tadpole |
| Daboia | Toad |
| Frog | Tortoise |
| Lizard | Turtle |
| Necturus | Water moccasin |
| Newt | |

INSECTS, MICROORGANISMS, PARASITES

| | |
|------------------------|-----------------------|
| Ascaris suum | Lithospermum ruderae |
| Drosophila | Panulirus interruptus |
| Echinococcus granulosa | Phormia |
| Lactobacillus casei | Schilliroside |
| Lycopodium spores | |
| Girella nigricans | |

CUMULATIVE INDEX—VOLUMES 121-167

For *see also* references check subject heading lists in Introduction

- ABBOTT, A. O. and AHMANN, C. F.** Blood cell picture in avitaminosis A, 1938, 122: 589
 —, **AHMANN, C. F. and OVERSTREET, M. R.** Human blood in avitaminosis A, 1939, 126: 254
- ABDOMEN**
 pressure in, acute effects, 1947, 149: 292
 during labor, 1938, 121: 640
 sensitivity to x-ray injury, 1950, 161: 323
- ABDOMINAL BELT**
 protection against G forces, 1947, 150: 22
- ABELL, R. G.** Permeability of newly formed blood capillaries, 1946, 147: 237
 — *See* PAGE, I. H.
- ABESS, A. T.:** *see* BEVAN, W., JR.
- ABRAHM, P. M.:** *see* FRIEDMAN, M.
- ABRAMS, M., DEFRIEZ, A. I. C., TOSTESON, D. C. and LANDIS, E. M.** Salt and water intake by hypertensive rats, 1949, 156: 233
 — *See* TOSTESON, D. C.
- ABRAMSON, D. I. and FIERST, S. M.** Vascular changes in man during digestion, 1941, 133: 686
 —, **SCHKLOVEN, N., MARGOLIS, M. N. and MIRSKY, I. A.** Massive doses of insulin and peripheral blood flow, 1939, 128: 124
 —, **WASSERMAN, P. and SENIOR, FANNY A.** Depressor effect of rabbit erythrocytes in dog, 1938, 124: 402
 — *See* FRIEDMAN, B.
- ABREV, B. E.:** *see* WOODBURY, R. A.
- ABSORPTION**
 from obstructed gall bladder, 1940, 129: 703
 intestinal, adrenalectomy, 1940, 131: 36; 1942, 137: 105; 1943, 140: 44
 anoxia, 1940, 129: 619; 1941, 134: 288; 1945, 143: 393
 bile, 1942, 135: 261
 blood pressure, 1947, 150: 468
 Ca and K, 1938, 121: 475
 elements of autogenous serum, 1945, 144: 457
 hemorrhage, 1938, 124: 102
 osmotic and electrolyte relationships during, 1945, 144: 468
 osmotic work, 1938, 121: 771; 1940, 129: 176
 physical forces determining, in mucosa, 1940, 130: 410
 physical hypotheses of transfer of fluids, 1940, 130: 418
 sodium laurylsulfate, 1945, 145: 123
 solution concentrations, 1945, 144: 468
 starch, 1947, 148: 297
 thyroxin, 1938, 123: 577
 intestinal of specific substance: *See* name of substance
 of injected materials, sodium lauryl sulfate, 1945, 145: 123
- ABSORPTION SPECTRA**
 of visual purple, 1938, 121: 215
- AC-GLOBULIN:** *see* GLOBULIN, AC-
- ACACIA (GUM)**
 clotting time, 1945, 144: 450
 oxygenation of red cells, 1941, 132: 529
 thrombin activity, 1942, 137: 351
- ACAPNIA**
 CO₂-O₂ tension of alveolar air, 1946, 146: 652
- ACCELERATION**
 alleviation, 1946, 146: 33
 comparative effect of positive and negative, 1949, 156: 1
 conditioned reaction, 1939, 125: 265
 conditions modifying resistance, 1949, 156: 137
 diet and survival, 1949, 159: 33
 drugs and resistance, 1945, 143: 267
 force and time elements in circulatory changes, 1948, 152: 492
 hydrostatic pressures, 1947, 151: 459
 negative, fluid shifts, 1948, 153: 64
 protection by CO₂ against, 1948, 152: 22
 protection of brain circulation, 1947, 151: 355
 protective aids, 1947, 150: 7
 pulse rate response, 1948, 152: 157
 rapid shifts, 1948, 153: 64
 renal function, 1948, 155: 195
 statistically valid tests of resistance, 1945, 143: 262
- ACCELERATOR NERVES:** *see* CARDIAC NERVES
- ACCLIMATIZATION**
 ability to work, 1946, 146: 336
 blood sugar response to anoxia, 1948, 155: 10
 blood volume, 1951, 167: 52
 composition of sweat, 1938, 123: 412
 gastric emptying, 1942, 137: 161
 heat exchanges of man, 1940, 129: 84
 heat production in hypothermia, 1950, 161: 359
 respiratory response, 1949, 157: 445
 retention, 1946, 146: 339
 survival in hemorrhagic shock, 1946, 147: 162
 to anoxia; blood sugar and hemoglobin, 1951, 167: 559
 to CO₂; blood studies, 1940, 129: 524
 to cold, 1951, 167: 644
 by hamster, 1951, 166: 62
 metabolic rate, 1951, 167: 651
 to heat, 1943, 140: 170
 long term, 1947, 148: 86
 persistence, 1943, 140: 321
 work performance at lower temperature, 1946, 146: 340
 to high oxygen, 1944, 142: 466
 to humid heat, 1940, 131: 54
- ACCOMMODATION**
 in mammalian motor nerves, 1942, 136: 629
 in nerve fiber, strychnine, 1939, 125: 175
 of motor and sensory fibers, 1938, 121: 440
 visual, changes in volume of ciliary body, 1947, 150: 570
 sympathetic action in, for far vision, 1940, 128: 588

ACETALDEHYDE

- acetylcholine sensitivity of muscle, 1946, 145: 420
- metabolism and liver changes, 1949, 157: 184

ACETANILIDE

- muscle sensitivity to acetylcholine and potassium, 1946, 145: 610

ACETATE

- substrate, for perfused rat heart, 1949, 158: 272
- for smooth muscle activity, 1951, 167: 391
- metabolism, 1951, 166: 121
- in heart, 1946, 145: 558
- in muscle, 1951, 166: 121
- Na, blood coagulation, 1940, 130: 576
- hypertonic solution of, drinking, 1950, 162: 335
- reversal of self-depression of T_{MPAH} by, 1951, 167: 531
- utilization, by cardiac muscle, 1949, 158: 251
- in diabetic ventricle and diaphragm, 1949, 158: 266

ACETOACETATE

- substrate for acid secretion in stomach, 1951, 166: 458

ACETONE

- acetylcholine sensitivity of muscle, 1946, 145: 420
- production in vitro by liver, insulin, 1945, 144: 55

ACETONE BODIES

- ACTH and excretion, 1949, 159: 549
- diet and excretion, 1949, 158: 57
- of urine, due to injection of ACTH in normal animals, 1951, 166: 168
- pituitary and metabolism, 1944, 141: 662

ACETONURIA: see ACETONE BODIES**ACETOPHENONE**

- muscle sensitivity to acetylcholine and potassium, 1946, 145: 610

ACETYL-BETA-METHYLCHOLINE

- adrenaline and hydrolysis, 1949, 158: 330
- index of auriculo-ventricular conductivity, 1939, 127: 276
- liver blood flow, 1941, 132: 713
- perfused liver, 1938, 124: 654; 1938, 124: 712
- permeability of erythrocytes, 1951, 164: 424
- pulmonary arterial pressure, 1939, 125: 136
- pulmonary venous pressure, 1939, 125: 136
- serosa and mucosa of the intestine, 1947, 148: 720
- stimulation of cerebral cortex, blood pressure, 1948, 152: 314

ACETYLCHOLINE

- absence of sympathetic ganglion, 1940, 130: 352
- acid and muscular response to, 1945, 145: 1
- activation of nerve cell, 1942, 136: 604
- activity of adenosinetriphosphatase, 1948, 152: 86
- adrenaline, 1940, 130: 274
- comparison, 1938, 121: 149
- hydrolysis, 1949, 158: 330
- in pupillary regulation, 1941, 133: 106
- response of denervated muscle, 1939, 125: 199
- analysis of nicotinic actions, 1940, 130: 346
- anoxia and action of, 1951, 164: 567
- antagonism, posterior pituitary secretion, 1938, 124: 142
- antidiuretic action, 1947, 148: 261
- atropine and curare as antagonists, 1943, 139: 520

- atropinized, denervated heart, 1945, 145: 178
- beating turtle ventricle, 1943, 138: 760
- blood flow in bronchial artery, 1947, 148: 661
- cardiac ganglion, 1942, 136: 183
- cardiac systole and cycle relations, 1948, 154: 11
- cardiospasm, 1945, 143: 165
- central neurohumoral intermediation, 1943, 139: 371
- CO₂ and intermediation, 1944, 142: 131
- coronary blood flow, 1947, 148: 589
- cortex activity, 1948, 153: 113
- cortical potentials, 1942, 135: 634
- crossed phrenic phenomenon, 1941, 134: 104
- denervated facial muscles, 1938, 121: 614
- denervated iris, 1940, 130: 269
- denervated muscle, 1940, 131: 216
- denervated organs, 1940, 128: 469
- double auricle preparation, 1942, 135: 449
- elasmobranch auricle, 1943, 139: 46
- electrical skin potential, 1940, 130: 557
- equivalent, estrogen, 1940, 131: 422
- nasal mucosa, 1940, 131: 422
- ergotamine and hemodynamic action, 1940, 129: 53
- eserine and isolated pancreas, 1949, 157: 280
- excitability of frog muscle, 1938, 124: 372
- eye, 1941, 132: 437
- formation by rat tissues, 1939, 127: 381
- frog muscle, 1939, 127: 470
- ganglionic discharge, 1938, 122: 12
- hydrolysis in frog muscle, 1940, 130: 281
- hyperthyroid heart, 1947, 148: 692
- hypotension and cardio-acceleration, 1945, 144: 515
- in aqueous humor, 1938, 124: 275
- increase in intestinal motility, due to, 1951, 165: 379
- index of auriculo-ventricular conductivity, 1939, 127: 276
- inhibition of pseudopregnancy, 1950, 161: 524
- injection and sleep, 1939, 125: 499
- insulin and response, 1944, 141: 111
- intermediation of cell activity in central nervous system, 1943, 138: 776
- lachrymal gland, 1938, 123: 359
- liberation by sympathetic ganglia, 1938, 121: 331
- measurement by frog rectus muscle test, 1950, 162: 616
- measurement of circulation time, 1947, 150: 505
- metabolism, 1947, 151: 345
- motor neurons, following partial denervation, 1939, 126: 735
- muscle, 1948, 153: 358
- muscularis mucosae, 1945, 143: 329; 1947, 148: 669
- negative evidence, for transmission in carotid body, 1945, 144: 85
- nerve-free smooth muscle of chick amnion, 1940, 131: 530
- nervous integration of respiration, 1945, 144: 126
- neuromuscular transmission, 1940, 130: 205; 1943, 140: 273
- and ganglionic transmission, 1939, 128: 31
- nictitating membrane, 1938, 121: 149; 1939, 125: 279
- after ergotoxine, 1940, 128: 697
- normal and denervated submaxillary gland, 1939, 125: 675

- occurrence in gastric juice, 1938, 122: 631
of brain, 1944, 142: 513; 1949, 159: 247
 anesthetics and convulsants, 1950, 162: 469
 electrical stimulation, 1949, 159: 251
 physiological state, 1949, 159: 247
of central nervous system, 1941, 132: 588
of chick retina, 1947, 148: 42
of excised rat brain, 1951, 165: 365
of isolated nerves, 1939, 127: 263
of nerves in Wallerian degeneration, 1939, 128: 50
of serum, agene intoxication, 1949, 159: 298
oxygen poisoning, 1945, 144: 276
paroxysmal tachycardia, 1948, 153: 554
pelvic relaxation, 1950, 162: 606
pepsin of gastric juice, 1950, 163: 31
permeability of erythrocytes, 1950, 162: 610; 1951, 164: 424
post-mortem changes in, 1951, 165: 366
potassium concentration, and synthesis of, 1944, 142: 514
preganglionic denervation of sympathetic ganglion, 1939, 125: 282
production in antidromic vasodilatation, 1946, 145: 478
production of hyperchromic anemia, 1946, 147: 404
rate of muscular dystrophy, 1939, 128: 98
reaction of human umbilical artery, 1951, 164: 86
reactivity of pulmonary blood vessels to, 1951, 167: 732
relaxation of oviduct due to, 1940, 131: 240
release, in hypoglycemia, 1940, 128: 324
release of gastrin by, 1950, 163: 27
renal blood flow, 1951, 167: 542
response of frog's heart and rectus abdominis to, 1944, 141: 109
role in summation of stimuli, 1950, 160: 376
sensitivity of mucosal and peritoneal surfaces of ileum to, 1946, 145: 677
sensitivity of muscle to, 1946, 145: 420
 and epinephrine and potassium, 1946, 146: 569
 produced by isotonic glucose, 1948, 154: 455
sensitivity of submaxillary gland to, 1939, 125: 676
sensitivity of submaxillary gland and chorda tympani section, 1942, 135: 524
sensitizing effect of potassium to, 1944, 142: 631
sensory-induced epilepsy, 1950, 161: 430
serosa and mucosa of intestine, 1947, 148: 720
spinal neurons, after adrenaline, 1947, 150: 42
spread of cortical discharges, 1945, 144: 168
stimulating effect on mammalian heart, 1945, 144: 191
synthesis, ACTH, 1950, 161: 534
 brain slices, 1950, 163: 605
 organ extracts, 1947, 148: 418
 substances that decrease, 1946, 147: 384
 various substances, 1947, 151: 346
thiamin and action on muscle, 1946, 147: 233
turtle ventricle, 1945, 145: 149
various compounds, and muscle sensitivity to, 1946, 145: 610
vascular response, 1951, 166: 727
vascular tone, 1941, 135: 51
 vasopressor and other nicotinic actions, 1940, 130: 346
 water balance, 1948, 155: 312
ACETYLENE
 estimation of cardiac output with, 1941, 134: 268
 measurement of stroke volume with, 1939, 126: 744
ACETYSALICYLATE: *see* SALICYLIC ACIDS, acetyl-
ACETYSULFANILAMIDE
 excretion, 1943, 139: 197; 1944, 141: 158
ACEVEDO, D. Motor control of thoracic duct, 1943, 139: 600
ACH: *see* ACETYLCHOLINE
ACHESON, G. H. Responses of nictitating membrane after ergotoxine, 1940, 128: 695
— and ROSENBLUETH, A. Effects of veratrine upon nerve, 1941, 133: 736
— and SIMEONE, F. A. Excitability of superior cervical ganglion, 1941, 131: 572
 — *See* MORISON, R. S.
 — *See* ROSENBLUETH, A.
ACHLORHYDRIA: *see* GASTRIC ACIDITY, low
ACHROMOTRICHIA
 dietary, vitamins, sex hormones, 1944, 141: 260
 on purified diet, 1945, 145: 25
ACID BASE BALANCE
 bicarbonate and renal regulation in, 1946, 147: 138
 of blood, in acclimatization to CO₂, 1940, 129: 526
 during asphyxia and resuscitation, 1946, 147: 435
 in exercise, 1942, 137: 743
 in hyperthermia, 1938, 123: 550
 of serum and cells in pregnancy, 1942, 137: 386
 of sweat during acclimatization, 1938, 123: 417
 salivary flow, 1945, 144: 43
 thermal tolerances, 1938, 124: 264
 urinary ammonia and, 1947, 148: 64
 urinary excretion of titratable acid and, 1946, 147: 481
ACID PHOSPHATASE: *see* PHOSPHATASES, ACID
ACIDOSIS
 action of insulin, 1951, 166: 192
 ammonia excretion and hypophysectomy in, 1951, 167: 563
 diabetic, blood in, 1947, 149: 669
 symptoms and electrolytes in blood, 1947, 149: 669
 due to ammonium chloride, alkali therapy, 1948, 154: 480
 excretion of titratable acid in, 1946, 147: 481
 in hemorrhagic shock, 1945, 144: 505
 mechanisms of urine acidification in, 1945, 144: 252
 muscle electrolytes and, 1951, 167: 669
 pH of blood and synovial fluid, 1946, 146: 7
 renal reabsorption of phosphate, 1941, 134: 783; 1944, 142: 656
 respiratory center, 1944, 142: 125
ACIDS, FATTY: *see* FATTY ACIDS
ACKERMAN, R. F., CURL, H. and CRANDALL, L. A., JR.
 Bile and intestinal motility, 1941, 134: 32
ACONITINE
 use for production of auricular flutter, 1949, 159: 138

ACOUSTIC AREA

- ablation of, and conditioned reflexes, 1945, 144: 415
- afferent connections to, 1945, 144: 389
- afferent, in dog, 1950, 162: 489
- audio frequency localization in, 1944, 141: 399
- localization, in cerebral cortex, 1950, 160: 395
- pathway from medial geniculate to, 1946, 147: 311
- representations of ears in, 1951, 167: 147

ACOUSTIC STIMULI

- post-contraction hypertonus, 1944, 141: 486

ACTH: see ADRENOCORTICOTROPIC HORMONE**ACTION CURRENTS**

- conducting band in muscle, 1943, 138: 412

ACTION POTENTIAL: see NERVE, ACTION POTENTIAL; MUSCLE, ACTION POTENTIAL; etc.**ACTIVATION**

- single and repetitive, response to by cervical ganglion, 1938, 122: 688

ACTIVITY

- corn syrup, thiamin and, 1945, 145: 110
- diet and, 1944, 142: 663
- hypothalamic lesions and, 1942, 136: 612
- in isolated sympathetic ganglia, 1941, 134: 251
- light, temperature and, 1944, 142: 633
- muscular, pH and, 1951, 167: 386
- colon and transportation in, 1940, 128: 517
- oxygen consumption of frog muscle, 1941, 135: 238
- rate of carbon monoxide uptake, 1945, 143: 596
- rhythms in rat, 1944, 142: 633
- spontaneous, and adrenal cortical hormones, 1938, 121: 537
- due to frontal lobe lesions, 1939, 126: 158
- in amino acid deficiency, 1950, 163: 104
- visible radiations and, 1942, 137: 764
- voluntary, single motor unit in, 1941, 133: 658
- weight gain and, 1945, 143: 2

ACTOMYOSIN

- changes in skeletal muscle with development, 1951, 165: 701
- formation, estrogens and, 1950, 162: 406
- of uterus, 1950, 160: 46

ACYL PHOSPHATE

- of normal and failing heart, 1947, 150: 738
- various drugs and, in heart, 1947, 150: 739

ADAMS, A. D., JR.: see BRUNISH, VIRGINIA H.**ADAMS, W. E.: see NEWMAN, M. M.****ADAMS, W. L. and CLARK, B. B. Aluminum hydroxide gel and gastric secretion, 1944, 141: 255****—, WELCH, C. S. and CLARK, B. B. Sodium bicarbonate and gastric secretion, 1943, 139: 356****— See CAMPBELL, G. S.****— See CLARK, B. B.****— See HADDY, F. J.****ADAMS, W. S., SAUNDERS, R. H. and LAWRENCE, J. S. Output of lymphocytes, 1945, 144: 297****ADAPTATION**

- seasonal, to humidity, 1938, 124: 701
- to fasting, 1945, 143: 154
- to overdosage of estrogen, 1940, 130: 358

ADAPTATION ENERGY

- evidence supporting the conception, 1938, 123: 758

ADDIS, T., LEE, D. D., LEW, W., and POO, L. J. Utiliza-

tion of parenterally administered foreign protein, 1940, 128: 544

—, LIPPMAN, R. W., LEW, W., POO, L. J. and WONG, W. Protein and body growth in the rat, 1951, 165: 491**— See GRAY, H.****— See PERSIKE, E. C.****— See SUGARMAN, J.****— See YUEN, D. W.****ADENINE**

- of blood derivatives from mammalian erythrocytes, 1951, 167: 749.

- ultraviolet irradiation and, 1951, 167: 367

ADENOSINE

- metabolism in chick embryo, 1946, 147: 462

- phosphorylation, 1950, 162: 168

- renal hyperemia after, 1948, 153: 159

ADENOSINE DIPHOSPHATE

- of tissues in hemorrhagic shock, 1946, 147: 446

ADENOSINE MONO-PHOSPHATE

- of tissues in hemorrhagic shock, 1946, 147: 446

ADENOSINE PYROPHOSPHATE: see ADENOSINE TRIPHOSPHATE**ADENOSINE TRIPHOSPHATE**

- acetylcholine sensitivity of muscle, 1946, 145: 420
- action on physical properties of muscle fibers, 1951, 167: 280

- age and muscle content of, 1945, 145: 79

- changes in muscle in traumatic shock, 1944, 142: 292

- destruction of, in traumatic shock, 1947, 149: 243

- failure of synthesis, in shock, 1945, 145: 94

- in anaerobic tetanus of muscle, 1939, 125: 763

- in muscle atrophy, 1950, 161: 410

- magnesium and, 1950, 161: 387

- accumulation of, 1950, 161: 387

- muscle contraction, 1946, 145: 420; 1951, 165: 10

- muscle metabolism of, 1942, 137: 753

- of brain, anoxia and injury, 1941, 132: 770

- of developing muscle, 1951, 165: 713

- of muscle, 1940, 129: 229; 1943, 140: 318

- under various conditions, 1939, 126: 391

- work and recovery of, 1941, 132: 341

- of normal and failing heart, 1947, 150: 733

- of tissues in hemorrhagic shock, 1946, 147: 446

- phosphorylation, 1951, 165: 10

- place in muscular contraction, 1938, 122: 217

- potassium and formation of, 1944, 142: 517

- renal hyperemia after, 1948, 153: 159

- shock, 1946, 146: 267

- and tissue concentrations, 1947, 149: 372

- stimulation and, 1950, 160: 206

- turnover, in brain and muscle, 1951, 165: 255

- in muscle, 1944, 142: 623; 1945, 143: 159

- various drugs and, in heart, 1947, 150: 739

- various substances and activity, 1948, 152: 86

ADENYLIC ACID

- muscle metabolism, 1942, 137: 753

- release, in traumatic shock, 1947, 149: 244

- renal hyperemia after, 1948, 153: 159

ADERMINE: see PYRIDOXINE**ADES, H. W., METTLER, F. A. and CULLER, E. A. Medial geniculate lesions and hearing, 1939, 125: 15**

ADIPOSE VEINS

nitrogen concentration in denitrogenated and anesthetized cats, 1946, 146: 234

ADKISON, J. L.: *see* GRAY, J. S.

ADLER, H. F. and TEMPLETON, R. D. Correlation of activity and transportation in colon, 1940, 128: 514

— *See* GRODINS, F. S.

— *See* TEMPLETON, R. D.

ADOLPH, E. F. Heat balance of man, 1938, 123: 486

— Heat production in hypothermia, 1950, 161: 359

— Hypothermia in infant mammals, 1951, 166: 75

— Infant rats in cold and anoxia, 1948, 155: 366

— Initiation of sweating in response to heat, 1946, 145: 710

— Lethal cold immersion, 1948, 155: 378

— Rats drinking sea water, 1943, 140: 25

— Responses to low temperatures in vertebrates, 1951, 166: 92

— Thirst and its inhibition, 1950, 161: 374

— Tolerance to heat and dehydration, 1947, 151: 564

— Urges to eat and drink, 1947, 151: 110

— Water drinking in dogs, 1939, 125: 75

— Water exchanges and chemical agents, 1948, 155: 309

— and DILL, D. B. Water metabolism in the desert, 1938, 123: 369

— and LAWROW, J. W. Heat production of hypothermic hamster, 1951, 166: 62

— and MOLNAR, G. W. Heat exchanges in men outdoors, 1946, 146: 507

— and FARMINGTON, S. L. Water exchanges and nephrectomy, 1948, 155: 317

— *See* PINSON, E. A.

— *See* ROBINSON, E. A.

ADRENAL CORTEX

adrenergic agents, 1950, 160: 490

adrenergic substances in, 1947, 148: 475

altitude tolerance, 1948, 153: 16

anoxia and, 1942, 137: 606

anterior pituitary in metabolism, 1940, 128: 552

blood sugar level, 1949, 157: 418

brain and muscle potassium in stress, 1948, 152: 423

capillary permeability, 1942, 137: 69

carbohydrate metabolism and, 1938, 122: 460

cholinesterase in, 1947, 148: 677

cytochemistry, during stress, 1950, 163: 326

development of male reproductive system and, 1939, 126: 371

diabetes insipidus and, 1941, 132: 141

diabetogenic effect of diethylstilbestrol and, 1943, 138: 577

elevated blood K in histamine intoxication and, 1945, 144: 104.

failure to protect against cold, 1949, 156: 368

function, x-irradiation and, 1951, 167: 321

glutathione and, 1951, 164: 770

hypertension and, 1951, 166: 185

hypertrophy and work, 1938, 124: 627

inhibition of hair growth by estrogen and, 1949, 159: 118

insufficiency, circulatory factors in, 1951, 165: 306

circulatory failure in, 1938, 123: 659

kidney function in, 1939, 125: 66; 1939, 125: 631

relative effects of desoxycorticosterone and whole cortical extract, 1941, 133: 503

sodium metabolism in, 1951, 164: 437

interrelation with estrogens, 1949, 159: 118

lactation, 1947, 150: 398

large amounts of cortin and, 1938, 124: 369

lesions due to potassium deficiency, 1945, 145: 292

liver regeneration and, 1950, 163: 354

neurohypophysis and, 1939, 125: 71

neuromuscular transmission, 1942, 137: 331

oxygen consumption of various areas, 1951, 167: 341

potassium intoxication, 1945, 144: 103

prevention of hypoglycemic convulsions by, 1942, 137: 655

resistance to cold, 1942, 136: 25

serum albumin metabolism and, 1943, 138: 258

sex hormones, 1945, 144: 652

ADRENAL GLANDS

adrenaline output, 1951, 166: 284

alterations, in filtrate factor-deficient rats, 1944, 140: 715

ascorbic acid content, 1950, 160: 502

glutathione and, 1940, 128: 655

surgical conditions and blood sugar levels, 1950, 163: 96

B-complex deficiency, 1950, 161: 516

blood sugar after frontal lobectomy, 1947, 149: 250

captivity, 1950, 162: 5

carbohydrate metabolism, 1943, 140: 98

chloride content, 1940, 129: 600

cholesterol content, ascorbic acid and, 1951, 166: 378

following burns, 1945, 144: 664

composition in renal hypertension, 1950, 161: 450

denervation of, and insulin, 1939, 125: 667

enzymatic conversion of cyanide to thiocyanate in, 1948, 153: 351

epinephrine content, 1950, 162: 411

estrogens and x-ray injury to, 1949, 159: 274

excretion and reabsorption of sodium, 1949, 159: 124

extract, and potassium intoxication tolerance, 1947, 151: 143

and tissue metabolism, 1939, 127: 714

function in alloxan diabetes, 1947, 150: 92

homeoplastic transplantation of, 1938, 121: 650

hypertension, 1951, 164: 61; 1951, 167: 462

hypertrophy due to thyroidectomy and gonadectomy, 1938, 123: 266

inactivation of, blood sugar level and duodenal HCl, 1939, 126: 273

inaction and, 1941, 132: 370

kidney function and, 1948, 154: 229

lactation factor, 1941, 134: 12

leucocyte picture and, 1950, 160: 75

lipid composition, 1940, 131: 291

Na and K, 1938, 122: 585

ovariectomy and, 1949, 157: 193

parathyroid glands and, 1940, 128: 577

pituitary, and inanition, 1941, 132: 372

pressor response to hypoxemia, 1948, 154: 397

See page iii for guide to use of index

ADRENAL GLANDS

protein metabolism and, 1946, 147: 227
 radioactive iodine in, 1941, 132: 348
 resistance to water intoxication, 1945, 144: 575
 response to cold, 1938, 121: 178
 secretion, gluconeogenic and lipid, 1951, 167: 605
 sensitization by partial denervation, 1938, 122: 186
 shielding and x-irradiation, 1951, 165: 58
 survival at high temperatures and, 1945, 144: 108
 sympathomimetic amines in, 1947, 148: 461
 thiamin deficiency, 1941, 134: 121
 thiouracil and metabolism, 1944, 141: 93
 thymus and, 1940, 128: 477
 thyroidectomy, 1938, 121: 224
 uptake of radioactive bromine by, 1941, 134: 109
 urinary non-protein nitrogen and, 1947, 149: 511
 vitamin E deficiency, 1941, 132: 265
 water content, 1938, 121: 381
 diet and exercise and, 1940, 128: 539
 work performance, 1949, 156: 365

ADRENAL GLANDS, WEIGHT

androgens and, 1948, 154: 461
 anoxia and, 1942, 137: 608
 ascorbic acid concentration in salt restriction and, 1951, 165: 130
 cholesterol content after x-radiation, 1947, 150: 482
 diethylstilbestrol and, 1942, 136: 137
 epinephrine content and, 1950, 162: 412
 hypertension and, 1939, 125: 589
 ovariectomy and, 1946, 146: 134
 pituitary extract and, 1939, 128: 172
 prolonged anterior pituitary treatment and, 1946, 147: 302
 sex hormones, and, 1945, 144: 653
 steroids and, 1948, 155: 242
 stilbestrol and, 1946, 145: 412
 temperature, starvation and, 1950, 163: 92
 thyroidectomy and, 1946, 145: 412

ADRENAL MEDULLA

cholinesterase content, 1945, 144: 82
 hypertrophy due to thiouracil, 1945, 144: 71
 removal, cardiac accelerator power of adrenaline and related drugs, 1940, 130: 193
 cardioacceleration from acetylcholine hypotension and, 1945, 144: 515
 hereditary diabetes and, 1944, 141: 466
 muscular activity and, 1940, 130: 151

ADRENALECTOMY

absorption, 1940, 129: 185
 of carbohydrate, 1940, 131: 36
 of fatty acids, 1943, 140: 44
 of glucose, 1942, 137: 105
 acclimatization and survival to cold after, 1951, 165: 481
 acid and alkali phosphatase, 1947, 150: 584
 action of pressor substances after, 1942, 137: 373
 adrenaline intoxication and, 1939, 126: 7
 adrenergic substances in tissues, 1947, 148: 471
 arginase and phosphatase of tissues, 1948, 154: 489
 blood and tissue ketone and, 1941, 132: 522
 blood and urine ketone, 1939, 126: 754
 blood chemistry of sloth, 1938, 123: 701

blood pressure and, 1938, 122: 352; 1939, 128: 133
 plasma volume and, 1941, 134: 504
 blood pressure response to auditory stimulation, 1948, 155: 128
 carbohydrates, and electrolytes, 1938, 122: 446
 carbohydrate metabolism and, 1940, 128: 557; 1941, 132: 446
 cardiac and liver glycogen, 1941, 134: 799
 cardiac hypertrophy, 1949, 159: 153
 cation distribution, 1941, 134: 225
 circulatory failure following, 1938, 123: 659
 and shock in dogs, 1941, 132: 249
 comparison of symptoms with acute riboflavin deficiency, 1951, 165: 618
 DCA hypertension, 1949, 157: 241
 desoxycorticosterone acetate, progesterone and, 1941, 132: 522
 development of muscular fatigue, 1950, 162: 10
 disturbances following, 1938, 122: 452
 electrolyte balance in nonstimulated muscle, 1940, 129: 269
 fat absorption and, 1941, 134: 619; 1942, 136: 712
 food intake and effects, 1941, 135: 58
 glucose, and N.P.N. excretion, 1948, 152: 603
 glucose tolerance, 1948, 152: 508
 glycogen metabolism of denervated muscle, 1943, 138: 360
 growth and, 1943, 139: 499
 heat production in pigeons, 1944, 141: 153
 histaminase in tissues, 1940, 130: 540
 histamine content of tissues, 1941, 131: 589
 hypertension produced by increased intracranial pressure, 1940, 128: 665
 in vitro synthesis of carbohydrate, 1941, 135: 183
 in vitro tissue metabolism and, 1940, 130: 231
 insulin of pancreas, 1944, 141: 608
 ketolytic activity, 1938, 122: 102
 leucocyte count, 1948, 153: 150
 liver synthesis of carbohydrate, 1941, 135: 178
 monkey and, 1938, 123: 705
 muscle action potential, 1948, 154: 66
 muscular capacity, 1940, 131: 465
 organ weights and, 1939, 125: 589
 oxygen consumption of erythrocytes, 1947, 149: 504
 of excised tissue, 1941, 132: 74
 phosphorus exchange between blood and muscle, 1941, 134: 42
 plasma amino nitrogen, 1948, 154: 87
 potassium content of stimulated muscle and, 1945, 143: 558
 potassium loss from muscle and, 1947, 148: 266
 production of shock following, 1941, 134: 426
 pyrogen fever in rabbit, 1950, 161: 528
 radiation syndrome, 1951, 165: 43
 rate of disappearance of histamine and, 1938, 124: 414
 renal function and, 1938, 121: 528; 1939, 125: 645; 1947, 149: 409
 renal hypertension, 1938, 123: 224
 renin concentration in kidney, 1940, 128: 481
 resistance to cold, 1942, 136: 26
 to trauma, 1943, 138: 349
 to water intoxication, 1945, 144: 575

- response to chilling, 1944, 141: 653
 to cold, 1938, 122: 435
 to electrical stimulation of muscle, 1947, 149: 7
 to pressor substances, 1941, 132: 622
 to TEA, 1949, 158: 407
 salt diet and work performance after, 1940, 129: 280
 salt hypertension and, 1951, 164: 74
 serum protein level and, 1942, 136: 308; 1942, 136: 776
 sodium chloride and bicarbonate intake after, 1951, 164: 369
 succinoxidase and cytochrome oxidase of liver, 1946, 145: 695
 survival after x-irradiation and, 1951, 167: 345
 sympathin liberation and, 1941, 132: 542
 thiourea intoxication, 1945, 144: 742
 thymus, 1940, 128: 477
 tolerance of eviscerated rat for glucose and, 1948, 152: 598
 urinary N.P.N. and, 1946, 147: 222; 1947, 149: 511
 water balance and, 1939, 128: 226
 water exchange in diabetes insipidus, 1938, 122: 143
 work performance, 1941, 133: 676
ADRENALINE: see EPINEPHRINE
ADRENALONE: see EPINEPHRINE-LIKE SUBSTANCES
ADRENERGIC FIBERS: see NERVE FIBERS
ADRENERGIC SUBSTANCES
 from sympathetic neurones and various tissues, 1947, 148: 460
 inhibition at sympathetic synapses and, 1939, 127: 738
 release, in hypoglycemia, 1940, 128: 324
 vagal cardiostimulation and, 1949, 158: 34
 sympathectomy and, in tissues, 1947, 148: 470
ADRENINE: see EPINEPHRINE
ADRENOCORTICAL HORMONES
 ability to work in heat, 1945, 143: 171
 acid and alkaline phosphatase, 1947, 150: 584
 ACTH, regulation of, 1951, 165: 466
 activity and, 1938, 121: 537
 in sloth and, 1939, 127: 127
 adrenaline shock, 1938, 123: 668
 antagonism to ACTH, 1950, 160: 217
 to estrogens, 1948, 152: 131
 blood amino acids and, 1940, 128: 777
 blood phospholipides and, 1951, 164: 31
 blood pressure response to carbon arc irradiation, 1943, 139: 604
 burn shock and, 1945, 145: 204; 1950, 160: 83
 capillary permeability and, 1940, 129: 691; 1941, 134: 258; 1942, 137: 426; 1946, 146: 128
 carbohydrate metabolism, 1941, 132: 446
 comparison of desoxycorticosterone and whole cortical extract, 1941, 133: 503
 concentration in gland, thiamin deficiency and, 1941, 134: 125
 DCA hypertension, 1949, 157: 241
 diabetes and, 1950, 162: 1
 electrolyte changes in muscle, 1938, 124: 322
 experimental hypertension, 1951, 166: 533
 experimental shock and, 1943, 139: 481
 glucose tolerance tests, 1949, 158: 360
 glycogenesis due to, 1949, 159: 263
 glycogenic effect, 1949, 158: 351
 glycotropic effect, 1939, 128: 274
 hepatectomy and, 1940, 128: 731
 histaminase and, 1940, 130: 541
 histaminase of tissues and, 1940, 130: 539
 hypertension after hypophysectomy and, 1946, 147: 471
 in vitro synthesis of carbohydrate, 1941, 135: 175
 inactivation of histamine by adrenalectomized animal, 1939, 127: 782
 intestinal absorption, 1940, 129: 186
 isolated renal tubules, 1944, 141: 138
 ketosis and, 1942, 135: 462
 -like material, in normal urine, 1943, 139: 742
 liver glycogen, 1941, 131: 783
 liver synthesis of carbohydrate, 1941, 135: 177
 low blood pressure and, 1938, 123: 659
 mucolytic systems and, 1951, 166: 555
 of adrenal gland, 1941, 134: 12
 of urine, 1948, 152: 615
 oral assay, 1938, 124: 583
 oxygen consumption in rest and work, 1938, 121: 549
 oxygen consumption of erythrocytes, 1947, 149: 505
 parathyroid glands and, 1940, 128: 580
 parenteral and oral assays, 1940, 130: 298
 partial mitigation of radiation syndrome by, 1951, 165: 27
 pituitary hormones and carbohydrate metabolism and, 1939, 126: 150
 protection by, against high temperatures, 1945, 144: 113
 recovery from chronic starvation and, 1951, 166: 566
 renal function, 1938, 121: 528; 1938, 123: 630; 1939, 125: 638; 1943, 139: 546
 renal hypertension and, 1940, 130: 570
 reproduction and, 1938, 122: 16
 resistance, to anoxia, 1945, 145: 197
 to G forces, 1946, 146: 41
 to peptone shock, 1944, 142: 191
 respiration of tissue slices, 1939, 127: 710
 rest and work, 1938, 121: 550
 restoration of EEG to normal with, 1951, 164: 16
 spontaneous activity and, 1938, 121: 537
 survival to anoxia, 1945, 143: 550
 therapy in shock, 1942, 138: 1
 traumatic shock, 1943, 139: 460
 urinary nitrogen, 1942, 137: 547
 vascular responses of stress, 1951, 165: 456
 vascular shock, 1943, 138: 225
 water intoxication, 1942, 135: 379
 water metabolism in pyridoxine deficiency, 1951, 166: 538
 work performance and, 1949, 157: 99
 of hypophysectomized rats, 1938, 122: 302
 salt diet and, 1940, 129: 281
ADRENOCORTICOTROPIC HORMONE
 action on joint swelling, 1951, 166: 342
 antagonism to DCA and adrenal cortical extracts, 1950, 160: 217
 blood glutathione and, 1951, 165: 574

ADRENOCORTICOTROPIC HORMONE

- blood N.P.N. and, 1942, 137: 207
- blood sugar regulation and, 1951, 164: 131
- calorie restriction and, 1948, 154: 522
- capillary permeability and, 1951, 166: 518
- choline deficiency and production of, 1950, 162: 375
- continuous injection of, in rats, 1951, 166: 165
- discharge from pituitary grafts, 1949, 159: 426
- experimental hypertension and, 1951, 166: 532
- glycosuria of diabetic rats, 1947, 150: 403
- leukocyte response to, 1951, 166: 524
- liver arginase, 1943, 138: 443
- metabolism and, 1948, 155: 18; 1948, 155: 24
- neuromuscular function, 1950, 161: 534
- neuroregulation of release, 1949, 159: 433
- oxygen consumption of adrenal cortex, 1951, 167: 342
- parabiosis and, 1950, 163: 297
- potassium secretion, 1950, 161: 155
- production of ketosis by, 1948, 152: 210
- regulating effect of corticoids, 1951, 165: 466
- regulation of after stalk section, 1951, 167: 569
- renal hypertension, 1950, 162: 370
- restoration of renal hypertension by, 1944, 141: 394
- stalk section and secretion of, 1949, 158: 45
- stress and, 1949, 159: 433
- survival to anoxia, 1945, 143: 550
- urate excretion and, 1950, 163: 684
- urinary nitrogen of diabetic rats, 1947, 150: 403

ADRENOTROPIC FACTOR

- glycotropic factor of anterior pituitary, 1939, 128: 274

ADRENOTROPIC RECEPTORS

- study of, 1948, 153: 586

ADREX: see ADRENALECTOMY**AEROEMBOLISM**

- as factor in explosive decompression injury, 1949, 157: 88

AEROSOL O.T.

- absorption from alimentary tract, 1942, 135: 334

AFTER-DISCHARGE

- electrotonic nature of, 1947, 148: 515

AGE

- acetylcholine formation by brain, 1939, 127: 383
- alveolar CO₂ tension, 1941, 133: 610
- anaerobic survival and, 1943, 139: 366
- anoxia and, intestinal motility and, 1951, 167: 103
- appetite in thyroid abnormal rats, 1943, 139: 142
- B vitamin requirements and, 1948, 153: 31
- basal metabolic rate, 1938, 121: 502
- blood hypertensinogen, 1949, 158: 401
- blood picture and, 1938, 124: 620
- blood pressure and, 1938, 122: 491; 1939, 128: 234; 1945, 143: 216
- blood sugar level, 1950, 162: 436
- bone growth and, 1946, 146: 586
- brain metabolism and, 1939, 125: 602
- calorigenic response to adrenaline, 1943, 138: 671
- capacity for physical work and, 1945, 143: 423
- cardiac output, 1938, 121: 517
- cataract development in diabetic rat, 1950, 161: 540
- diameter of erythrocytes, 1940, 128: 386

- electrolyte changes in stimulated muscle and, 1940, 128: 443
 - epinephrine shock, bradycardia and, 1945, 143: 134
 - erythrocyte number, body weight and metabolism, 1938, 122: 480
 - gastrointestinal response to glucose ingestion, 1945, 144: 609
 - glucose effect on gasping pattern and, 1944, 141: 299
 - glucose metabolism and, 1951, 166: 541
 - glycogen of central nervous system, 1946, 146: 390
 - gonadotropins of hypophysis, 1939, 125: 398
 - hemoconcentration responses, 1947, 148: 193
 - hemoglobin and, 1938, 124: 511
 - hemolytic activity of liver fractions, 1951, 164: 468
 - hyperthyroidism, egg production and, 1947, 149: 383
 - intestinal motility, 1949, 158: 201
 - islets of Langerhans and, 1948, 152: 36
 - ketosis and, 1940, 130: 332
 - lethality of DFP, 1948, 153: 121
 - metabolism of spinal cord, 1942, 138: 142
 - methemoglobin formation and reduction, 1949, 159: 47
 - oxidation, and glycolysis of brain, 1944, 141: 516
 - oxygen capacity of blood, 1946, 146: 224
 - oxygen consumption of brain, 1941, 132: 294
 - oxygen transport in blood, 1946, 146: 223
 - pancreatic insulin, 1944, 141: 609
 - patterns of heart function, 1951, 166: 87
 - phosphorus compounds of muscle, 1945, 145: 79
 - phosphorus metabolism, 1942, 138: 176
 - radiation syndrome, 1951, 165: 43
 - recovery after moderate exercise, 1947, 149: 605
 - renal function, 1938, 123: 500
 - rennin of gastric juice, 1943, 138: 557
 - resistance to anoxia and, 1955, 140: 609; 1945, 145: 191
 - to arrest of brain circulation, 1940, 130: 588
 - G forces, 1946, 146: 39
 - respiration of developing brain, 1942, 136: 601
 - response of brain metabolism to various conditions, 1942, 137: 328
 - sensitivity of drosophila to oxygen poisoning, 1944, 140: 571
 - shock from extracts of parasites and, 1947, 148: 249
 - survival in hypothermia and, 1951, 166: 78
 - susceptibility to oxygen poisoning, 1945, 144: 275
 - thiourea intoxication, 1945, 144: 742
 - thyroid secretion rate, 1947, 150: 687
 - volume variation of finger tip, 1942, 136: 455
- AGED**
- emptying time of stomach in, 1941, 134: 719
 - measurement of pulse and alpha waves in, 1942, 136: 457
 - weight loss in, 1940, 128: 367
- AGENE**
- metabolism during intoxication, 1949, 159: 298
- AGENIZING**
- of amino acids, effect, 1948, 152: 637
- AGGLUTINATION**
- platelet, in spontaneous hemostasis, 1947, 148: 279

AGRANULOCYTOSIS

infectious, feline, 1945, 144: 291

AGRESS, C. M., ROSENBERG, M. J., BINDER, M. J., SCHNEIDERMAN, A. and CLARK, W. G. Cardogenic shock, 1951, 166: 603

AHLQUIST, R. P. Adrenotropic receptors, 1948, 153: 586

— Calculated femoral resistance, 1949, 159: 471

— See REMINGTON, J. W.

AHMANN, C. F.: see ABBOTT, O. D.

AIDAR, O. J.: see GEOHEGAN, W. A.

AIKAWA, J. K. Extracellular fluid compartments, 1950, 162: 695

AIR

arterial oxygen content during inhalation of, 1948, 152: 696

AIR BLAST

blood pressure, 1945, 143: 302

AIR MOVEMENT

heat loss from clothed human body and, 1939, 127: 505

AIRD, R. B.: see GREENBERG, D. M.

AITKEN, G. A., JR.: see MACLEOD, J.

AKMAN, L. C., SILBER, E. N., MILLER, A. J. and KATZ, L. N. Endocardial-epicardial potential gradient, 1949, 159: 492

— See HWANG, W.

ALANINE

increase of renal filtration rate by, 1947, 148: 446

oxygen consumption when substrate, 1941, 135: 183

renal clearance, 1944, 140: 688

tubular reabsorption, 1944, 140: 537

ALARM REACTION

adrenaline lung edema and, 1938, 122: 347

in rats, 1938, 123: 762

protection against ammonium pulmonary edema, 1949, 158: 1

water balance in, 1939, 128: 226

ALBANESE, A. A., IRBY, VIRGINIA, FRANKSTON, JANE E. and LEIN, MARILYN. Carbohydrate feeding and urinary amino acids, 1947, 150: 389

ALBRECHT, CAROLYN B. Toxicity of sea water, 1950, 163: 370

ALBUMIN

bovine, comparison with T-1824 as measure of plasma volume, 1950, 163: 518

parenteral injection and proteinuria, 1948, 154: 532

exchange between plasma and lymph, 1951, 165: 15
metabolism, and water and electrolyte excretion, 1951, 164: 167

of blood, and evisceration, 1950, 160: 250

of plasma, combination of dyes with, 1950, 161: 473
hemorrhage and, 1943, 138: 569; 1944, 140: 739
regeneration of during hypoproteinemia, 1945, 144: 372

of serum, as infusion fluid following hemorrhage, 1947, 150: 641

growth and, 1941, 132: 365

hormones and level, 1942, 136: 306

infusion of, in burn shock, 1947, 150: 432

metabolism in rat, 1943, 138: 258

protein of heart, kidney and liver, 1940, 129: 687

phosphorus deposition in, 1943, 138: 320

role in blood clotting, 1940, 130: 761

ALBUMIN-GLOBULIN RATIO

in blood, and anesthesia, 1950, 160: 279

in radiation syndrome, 1951, 165: 34

of plasma, and radiation syndrome, 1951, 165: 43

ALCOHOL (ETHYL)

combustion, in rat, 1950, 163: 616

gastric absorption of, 1948, 153: 268

gastric potential, 1946, 147: 75

gastric secretion, and potential, 1947, 149: 167

heart rate, 1940, 129: 295

hunger sense, 1938, 123: 248

inhibition of methanol oxidation by, 1950, 163: 619

oxidation of, 1939, 127: 308

oxygen consumption of brain, 1941, 132: 294

peripheral action potential, 1947, 148: 178

prefeeding of, and regulation of food intake, 1951, 164: 185

stomach and, 1943, 138: 313

survival time in drowning, 1951, 167: 101

survival to explosive decompression, 1950, 163: 401

ALCOHOL ANESTHESIA

chloretone preservatives, 1943, 140: 22

water balance of frogs, 1943, 140: 22

ALCOHOLISM

resistance to G forces, 1946, 146: 44; 1949, 156: 137

ALCOHOLS

decomposition products of fat, destruction of vitamin E by, 1939, 125: 599

ALDEHYDES

decomposition products of fats, vitamin E destruction by, 1939, 125: 599

ALDOUS, J.: see ALLARDYCE, J.

ALEXANDER, B. and LANDWEHR, GRETA. Prothrombin conversion accelerator, 1949, 159: 322

— See SELIGMAN, A. M.

ALEXANDER, F. A. D.: see FAZEKAS, J. F.

ALEXANDER, H.: see ERICKSON, L.

ALEXANDER, I. E.: see SIEGEL, P. S.

ALEXANDER, R. S. Arterial pulse dynamics, 1949, 158: 287; 1949, 158: 294

— Respiration and portal blood flow, 1951, 167: 738

— Tonic activity of spinal cardiovascular centers, 1945, 143: 698

— and WEBB, E. A. Blood cell concentration and pulse transmission, 1947, 149: 316

— and WEBB, E. A. Femoral arterial pulse in hemorrhagic shock, 1947, 150: 272

— See PITTS, R. F.

— See SELKURT, E. E.

ALEXANDER, W. F.: see RANDALL, W. C.

ALFREDSON, B. V.: see MULLICK, D. N.

ALIMENTARY TRACT

afferent pathways from, and emesis, 1951, 164: 520

electrophysiological studies, 1939, 127: 301

histamine absorption, 1951, 166: 462

intralumen pressure, 1940, 130: 794

measurement of gas volume, 1947, 149: 688

protein of, 1940, 128: 545

See page iii for guide to use of index

ALIMENTARY TRACT

- response to ingested glucose, 1945, 144: 609
- thyroxin and absorption from, 1938, 123: 577
- various agents and absorption from, 1942, 135: 330

ALKALI

- ECH and, 1947, 148: 7
- tolerance of dog heart, 1947, 148: 4

ALKALI LABILE FACTOR

- essential nature, for dogs, 1940, 130: 365

ALKALINE RESERVE

- hypothermia and, 1941, 132: 685
- in renal hypertension, 1946, 147: 650
- of plasma, and renal acid-base regulation, 1946, 147: 482
- recovery from exercise and, 1948, 152: 465

ALKALOSIS

- blood level associated with, 1948, 153: 41
- heart, 1947, 148: 1
- muscle electrolytes, 1951, 167: 669
- pH of blood, and synovial fluid, 1946, 146: 7
- renal reabsorption of phosphate, 1944, 142: 656

ALKYL RESORCINOLS

- intestinal absorption of insulin, 1941, 132: 281

ALLANTOIN

- clearance, in rat and dog, 1947, 151: 192
- excretion, after ACTH, 1950, 163: 684
- of blood, and nephrectomy and hepatectomy, 1947, 150: 678
- rate of entrance into CSF, 1949, 157: 394
- salicylate and excretion of, 1948, 152: 302

ALLARDYCE, J., ALDOUS, J., COOPER, W., PRATT, JEAN and SUTHERLAND, E. Effects of visible radiations upon albino rats, 1942, 137: 761

—, SALTER, J. and RIXON, R. Experimental hypertension, 1951, 164: 68

ALLEE, W. C.: *see* FINKEL, A. J.

ALLEN, A. C.: *see* BOND, V. P.

ALLEN, J. G., VERMEULEN, C., OWENS, F. M., JR. and DRAGSTEDT, L. R. Pancreatic juice and blood and liver lipids, 1943, 138: 352

— *See* DRAGSTEDT, L. R.

ALLEN, R. S.: *see* ARCHDEACON, J. W.

ALLEN, ROBERTA P.: *see* GILMAN, A.

— *See* PHILIPS, F. S.

ALLEN, S. C., TAYLOR, C. L. and HALL, V. E. Orthostatic insufficiency by tiltboard method, 1945, 143: 11

ALLEN, T. H. and ORAHOVATS, P. D. Cellophane measurement of T-1824, 1948, 154: 27

— and ORAHOVATS, P. D. T-1824-albumin and liver, 1951, 164: 123

— and ORAHOVATS, P. D. T-1824-albumin and T-1836-albumin, 1950, 161: 473

— and SEMPLE, R. E. T-1824 and plasma replacement, 1951, 165: 205

ALLEN, W. F. Cerebral acoustic areas and conditioned reflexes, 1945, 144: 415

— Cerebral cortex and conditioned responses, 1947, 151: 325

— Cerebral differentiated irradiation, 1942, 136: 783

— Cerebral lesions and conditioned reflexes, 1946, 147: 454

— Cord lesions and conditioned reflexes, 1951, 166: 176

Correct conditioned differential responses, 1943, 139: 525

— Lesion effects on olfactory conditioned reflexes, 1940, 128: 754; 1941, 132: 81

— Olfactory conditioned reflex and motor centers, 1938, 121: 657

— Olfactory cortical potentials, 1943, 139: 553

— Prefrontal cortex and conditioned reflexes, 1949, 159: 525

ALLEN, W. M. and HECKEL, G. P. Maintenance of pregnancy by progesterone, 1939, 125: 31

— *See* LYON, R. A.

ALLERGY

rhinitis, histamine-like substance in secretions, 1945, 144: 711

ALLES, G. A. and FEIGEN, G. A. Benzedrine on work-decrement and patellar reflex, 1942, 136: 392

— *See* HAMILTON, J. G.

ALLIGATOR

oxygen consumption of retina, 1943, 139: 13

ALLISON, J. B. and LEONARD, S. L. Factors influencing excretion of creatine, 1941, 132: 185

—, COLE, W. H., HOLMES, J. H. and ROOT, W. S. Blood phosphate after hemorrhage and muscle trauma, 1947, 149: 422

— COLE, W., WALCOTT, W. W., GELFAN, S., ROOT, W. S. and GREGERSEN, M. I. Transfusion therapy in hemorrhagic shock, 1949, 156: 191

— *See* COLE, W. H.

— *See* GREGERSEN, M. I.

— *See* ROOT, W. S.

ALLOPREGNANOL-3 α , one-20: *see* PREGNANOLS

ALLOTHREONINE

carbohydrate formation from, 1940, 131: 252

ALLOXAN

acetylcholine synthesis, and stimulation 1946, 147: 384

blood sugar level, 1950, 160: 228

epinephrine, 1948, 152: 609

glycogen content of liver, 1950, 161: 545

induction of pseudopregnancy, 1951, 167: 589

mechanism of hypoglycemia, 1950, 160: 107

plasma amino nitrogen, 1948, 154: 87

ALLOXAN DIABETES: *see* DIABETES, ALLOXAN

ALLYL BIS(β -CHLOROETHYL)AMINE

convulsant activity of, 1950, 160: 197

ALOPECIA

due to thyroid feeding, 1945, 145: 18

ALPERT, L. K.: *see* FARR, L. E.

ALPHA FREQUENCY: *see* ELECTROENCEPHALOGRAM

ALPHA WAVES: *see* ELECTROENCEPHALOGRAM

ALTAMIRANO, M. and HUDOBRO, F. Potassium and neuromuscular junction, 1948, 152: 53

—, FERNÁNDEZ, E. and LUCO, J. V. Denervation and antagonistic drugs, 1949, 156: 280

— *See* LUCO, J. V.

ALTERNATING CURRENT

excitability of nerve, 1939, 125: 205

nerve, 1939, 125: 251

nerve conduction, 1940, 130: 527

production of ventricular fibrillation, 1940, 131: 119

- stimulation of denervated skeletal muscle, 1944, 142: 218
- ALTHAUSEN, T. L. and STOCKHOLM, MABEL. Thyroid gland and absorption in digestive tract, 1938, 123: 577
- See EILER, J. J.
- ALTITUDE
- basal metabolism, of women, 1943, 140: 37
- blood changes, 1938, 122: 179
- ALTITUDE (ACTUAL ELEVATION)
- sea level, 1944, 142: 733
- sea level to 22,000 ft., 1949, 157: 445
- 703 ft., 1943, 140: 37
- 744 ft., 1943, 140: 37
- 870 ft., 1943, 140: 37
- 926 ft., 1943, 140: 37
- 1002 ft., 1943, 140: 37
- 5,280 ft., 1949, 156: 52; 1950, 163: 268
- 5,300 ft., 1951, 166: 394
- 6,000 ft., 1938, 122: 179
- 10,700 ft., 1951, 166: 394
- 14,150 ft., 1941, 132: 555; 1951, 166: 394
- 14,890 ft., 1944, 142: 733
- ALTITUDE, HIGH
- acclimatization, and respiration, 1949, 157: 445
- blood volume during, 1951, 167: 52
- to discontinuous exposure, 1951, 167: 261
- adaptation to, 1947, 151: 147
- anoxia due to: *see also* ANOXIA
- arterial oxyhemoglobin at, and work, 1946, 145: 428
- blood comb and, 1947, 148: 141
- blood O₂ saturation and consciousness, 1946, 145: 687
- blood sugar in prolonged exposure to, 1946, 145: 367
- brain blood flow, 1938, 122: 212
- breath holding time, 1947, 150: 147
- cardiac output in rat, 1950, 163: 268
- CHO metabolism, 1948, 152: 250
- circulation, in rest and work, 1941, 132: 555
- CO₂ and stress reaction, 1950, 161: 331
- CO₂ production by man, 1946, 147: 217
- cobalt and growth at, 1951, 166: 394
- dark adaptation, 1939, 127: 39
- decompression and, intravascular gas bubble formation, 1946, 147: 19
- decompression sickness, and alveolar CO₂, 1946, 147: 614
- on re-ascent to, 1947, 150: 135
- efficiency of artificial respiration at, 1949, 156: 52
- experimental production of polycythemia, 1940, 129: 142
- explosive decompression, 1950, 160: 362; 1950, 162: 37
- flicker fusion frequency, 1946, 145: 362
- glucose and anoxia from, 1945, 144: 378
- glucose tolerance tests, 1949, 158: 359
- hemoglobin affinity for O₂, 1944, 142: 733
- kidney structure, 1943, 140: 387
- myoglobin content, 1949, 159: 77
- O₂ gradient from alveolar air to blood, 1946, 147: 203
- O₂ consumption, and carrot diet, 1951, 167: 617
- during exercise, 1945, 144: 639
- O₂ pressure, and uptake of CO, 1946, 145: 347
- O₂-hemoglobin dissociation curve, 1944, 142: 737
- pain, and exercise, 1946, 145: 281
- rate of CO uptake, 1945, 143: 603; 1946, 147: 353
- relation of CO, O₂, and hemoglobin at various pressures, 1946, 145: 353
- renal function, 1943, 140: 376; 1948, 154: 195; 1948, 154: 202
- respiratory flow patterns, 1949, 157: 265
- respiratory metabolism at, 1946, 146: 710
- respiratory water vapor, 1949, 156: 299
- sulfanilamide and resistance, 1942, 136: 494
- theoretical composition of alveolar air, 1946, 146: 637
- tolerance to, and adrenal cortex, 1948, 153: 16
- CO₂ and, 1947, 151: 538
- low concentrations of carboxyhemoglobin and, 1946, 145: 361
- water distribution in body, 1947, 149: 103
- ALTITUDE, SIMULATED
- 550 to 22,000 ft., 1949, 157: 445
- 5,000 ft., 1947, 150: 147
- 5,000 to 35,000 ft., 1947, 150: 3
- 7,000 ft., 1946, 145: 347; 1947, 148: 141
- 7,000 to 12,000 ft., 1946, 145: 361
- 7,400 ft., 1939, 127: 39
- 8,000 ft., 1946, 146: 710; 1947, 149: 103
- 8,000 to 10,000 ft., 1946, 145: 367
- 10,000 ft., 1945, 144: 639; 1946, 146: 710; 1946, 147: 353; 1947, 148: 141; 1947, 150: 147
- 11,000 ft., 1939, 127: 39
- 12,000 ft., 1947, 151: 538
- 13,000 ft., 1946, 145: 347; 1946, 147: 203
- 15,000 ft., 1939, 127: 39; 1943, 140: 376; 1943, 140: 387; 1945, 144: 378; 1946, 145: 347; 1947, 150: 147
- 15,500 ft., 1947, 148: 141
- 16,000 ft., 1945, 143: 603; 1951, 167: 52
- 16,500 ft., 1946, 147: 203
- 18,000 ft., 1945, 144: 639; 1947, 149: 103; 1947, 151: 150; 1948, 152: 250; 1948, 154: 195; 1948, 154: 202; 1949, 159: 77; 1951, 167: 263
- 20,000 ft., 1945, 144: 378; 1946, 146: 637; 1947, 150: 135; 1950, 161: 331; 1950, 163: 268; 1951, 167: 52
- 24,000 ft., 1948, 152: 250; 1948, 154: 195; 1948, 154: 202; 1949, 158: 359
- 25,000 ft., 1943, 140: 376; 1943, 140: 387; 1946, 145: 347; 1951, 167: 262
- 28,000 ft., 1946, 145: 687; 1947, 149: 103
- 30,000 ft., 1945, 144: 639; 1946, 145: 428; 1946, 145: 687; 1946, 147: 217; 1949, 156: 299; 1949, 157: 265; 1950, 163: 268
- 33,700 ft., 1945, 144: 639
- 35,000 ft., 1946, 145: 428; 1946, 145: 687; 1950, 162: 37
- 36,000 ft., 1942, 136: 497
- 38,000 ft., 1946, 145: 281; 1946, 145: 687; 1946, 147: 614; 1947, 150: 135
- 40,000 ft., 1942, 136: 497; 1945, 143: 603; 1946, 145: 428; 1949, 156: 52; 1950, 163: 268

ALTITUDE, SIMULATED

- 41,000 ft., 1947, 151: 538
- 43,000 ft., 1946, 146: 637
- 45,000 ft., 1946, 147: 19
- 50,000 ft., 1947, 151: 147
- 52,000 ft., 1950, 162: 37
- 75,000 ft., 1950, 162: 37

80,000 ft., 1950, 160: 362; 1950, 162: 452

ALTLAND, P. D. and HIGHMAN, B. Acclimatization of rats to high altitude, 1951, 167: 261

ALTSCHUL, R. and TURNER, K. P. Nervous pathway of toe spreading reflex, 1942, 137: 247

ALTSHULER, C. H.: *see* SACKS, J.

ALUMINUM

metabolism of calcium and phosphorus, 1938, 124: 234

nutrition of rat, 1938, 123: 640

ALUMINUM CHLORIDE: *see* CHLORIDES

ALUMINUM HYDROXIDE

gastric secretion, 1944, 141: 256

increasing concentration and prothrombin time, 1947, 150: 382

iron retention, 1942, 137: 708

ALUMINUM METHIONATE

permeability of frog skin, 1950, 162: 196

ALUMINUM SULFATE: *see* SULFATES, AL

ALVEOLAR AIR

at high altitudes, 1947, 150: 204

composition of, as related to performance, 1946, 146: 209

indirect method for calculating gas pressures in, 1946, 147: 191

oxygen tension of, 1944, 142: 704

pCO₂ and decompression sickness, 1946, 147: 603

pO₂ during acclimatization to high altitude, 1947, 149: 571

theoretical composition of, at high altitude, 1946, 146: 637

ALVING, A. S.: *see* LEWIS, W. H., JR.

AMBERSON, W. R., NASH, T. P., MULDER, A. G. and BINNS, DOROTHY. Relationship between tissue and plasma chloride, 1938, 122: 224

AMBROSE, A. M.: *see* LAWSON, H. C.

AMBRUS, CLARA M.: *see* AMBRUS, J. L.

AMBRUS, J. L., AMBRUS, CLARA M. and HARRISSON, J. W. E. Histamine desensitization, 1951, 167: 268

AMES, A., III: *see* MUDGE, G. H.

AMIDE NITROGEN

of brain following hemorrhagic shock, 1945, 144: 690

AMIDONE

nerve fiber and, 1951, 164: 517

nerve sheath as barrier to penetration of, 1951, 166: 237

AMINO ACIDS

absorption of, 1939, 125: 709

agenized, dog and, 1948, 152: 637

calorigenic action of, 1938, 122: 533

cholate synthesis and, 1950, 163: 48

deficiency, and spontaneous activity, 1950, 163: 104

essential, for maintenance of nitrogen balance, 1939, 127: 589

excretion of, 1951, 164: 654

excretion of ammonia in small intestine and, 1940, 129: 149

failure to affect tubular transport mechanisms for Na and K, 1951, 165: 109

free plasma levels and excretion of, 1951, 167: 183

gastric inhibition by, in small intestine, 1942, 135: 611

metabolism, in nephrectomized rats during hemorrhagic shock, 1946, 147: 166

in traumatic shock, 1948, 152: 531

of blood, and evisceration, 1950, 160: 250

following hepatectomy, 1938, 121: 210

following hepatectomy and nephrectomy, 1938, 121: 211

in shock, 1945, 145: 97

insulin and, 1947, 150: 683

various factors and, 1940, 130: 174

of blood and urine following hepatectomy, 1938, 121: 204

of plasma, 1949, 159: 357; 1951, 167: 202

hemorrhage and, 1946, 146: 657

of urine, 1951, 167: 203

renal clearance of, 1947, 151: 202

retention of nitrogen from, 1939, 126: 215; 1939, 126: 226

thyroxin and intestinal absorption of, 1938, 123: 584

AMINO NITROGEN

clearance, and urine flow, 1946, 145: 639

metabolism during hemorrhagic shock, 1946, 147: 180

of brain following hemorrhagic shock, 1945, 144: 690

of liver and blood in shock, 1945, 144: 677

of plasma, following burns, 1945, 144: 663

following tourniquet shock, 1946, 147: 68

hormones and, 1948, 154: 87

of plasma, muscle, and liver in hemorrhagic shock, 1946, 147: 177

2-AMINO-4-HYDROXY-6-METHYL PTERIDINE: *see* PTERIDINES, 2-amino-4-hydroxy-6-methyl-

2-AMINO-4-HYDROXY-7-METHYL PTERIDINE: *see* PTERIDINES, 2-amino-4-hydroxy-7-methyl

2-AMINO-4-HYDROXY-PTERIDINE-6-CARBOXYLIC ACID: *see* PTERIDINES, 2-amino-4-hydroxy-6-carboxylic acid

2-AMINO-4-HYDROXY-6-PTERIDYL METHYL PYRIDINIUM IODINE

bone marrow cultures, 1948, 152: 654

2-AMINO-4-NITROPHENOL

PAH accumulation in kidney slices, 1950, 161: 189

phenol red transport in fish tubules, 1950, 161: 169

renal electrolyte metabolism, 1951, 167: 208

respiration of fish kidney, 1950, 161: 171

AMINOBENZOIC ACIDS

m-, and adrenaline oxidation by tryptophanase, 1942, 136: 67

- o-, and adrenaline oxidation by tyrosinase, 1942, 136: 67
- p-, and adrenaline oxidation by tyrosinase, 1942, 136: 67
- in body fluids during dietary restrictions in man, 1946, 147: 47
- interrelationship of, and inositol, 1942, 136: 124
- muscle sensitivity to acetylcholine and potassium, 1946, 145: 610
- AMINOPHENOLS**
- o-, and adrenaline oxidation by tyrosinase, 1942, 136: 67
- clotting time, 1945, 144: 450
- p-, clotting time, 1945, 144: 450
- muscle sensitivity to acetylcholine and potassium, 1946, 145: 610
- AMINOPHYLLIN**
- cerebral blood flow, 1943, 138: 426
- kidney response to, 1951, 167: 707
- potassium excretion and, 1950, 161: 155
- p-AMINOPROPIOPHENONE
- methemoglobinemia due to exercise and, 1946, 146: 702
- AMMONIA**
- acetylcholine synthesis and excitation, 1946, 147: 384
- excretion, and caffeine, 1945, 145: 115
- glucose, fructose and, 1938, 124: 79
- in acidosis, and hypophysectomy, 1951, 167: 563
- urinary pH, 1941, 132: 275
- formation, by kidney, 1938, 124: 66
- by ultraviolet irradiation of nucleic acid derivatives, 1951, 167: 364
- in the amphibian kidney, 1940, 131: 187
- of blood, following burns, 1945, 144: 666
- level associated with alkalosis, 1948, 153: 41
- renal regulation of retention and excretion, 1947, 148: 54
- secretion, by small intestine, 1940, 129: 147
- AMMONIA NITROGEN**
- of brain following hemorrhagic shock, 1945, 144: 690
- of liver and blood in shock, 1945, 144: 677
- AMMONIUM SULFATE: see SULFATES, NH₄**
- AMMONIUM THIOCYANATE: see THIOCYANATES**
- AMNION**
- nerve-free smooth muscle of, 1940, 131: 524
- AMNIOTIC FLUID**
- fetal aspiration of, 1941, 134: 769
- transfer of water and sodium to, 1942, 136: 757
- AMNIOTIN: see ESTRONE**
- AMPHETAMINE**
- brain metabolism, 1945, 143: 38
- cardiac output, 1949, 157: 353
- EEG in anoxia, 1943, 140: 296
- experimental polycythemia, 1941, 134: 219
- fatigue due to sleeplessness, 1947, 150: 257
- hunger, 1948, 153: 259
- production of polycythemia with, 1941, 134: 219; 1942, 137: 94
- resistance to G forces, 1946, 146: 41
- respiratory tract fluid, 1943, 138: 566
- AMYL CARBAMATE**
- ability to penetrate nerve sheath, 1951, 166: 238
- AMYL NITRATE**
- convulsions, 1942, 137: 398
- nasal volume, and temperature, 1945, 144: 306
- pulmonary arterial pressure, 1939, 125: 136
- pulmonary venous pressure, 1939, 125: 136
- resistance to G forces, 1946, 146: 41
- venous tone, 1940, 130: 183
- AMYLASE**
- diet, 1944, 141: 39
- hormonal control of secretion in pancreatic juice, 1948, 154: 358
- in ileal secretion, 1939, 128: 75
- of blood serum, after hypophysectomy, 1938, 122: 428
- chloroform anesthesia and, 1938, 124: 149
- glucose, 1949, 159: 29
- pancreatic, and coffee extract, 1943, 139: 343
- and diet, 1943, 138: 676
- produced by jejunum secretion, 1939, 128: 74
- salivary, and coffee extract, 1943, 139: 343
- stimulants, 1944, 141: 510
- AMYLOPSIN**
- hexyl resorcinol and ammonium thiocyanate, 1942, 135: 335
- AMYTAL**
- acetylcholine metabolism, 1947, 151: 346
- anticonvulsant in oxygen poisoning, 1945, 144: 276
- blood of rat, 1950, 160: 277
- blood supply to brain parts, 1940, 129: 650
- carbohydrate metabolism, 1938, 122: 759
- fatigue produced by wakefulness, 1947, 150: 257
- magnesium, and blood level, 1942, 135: 493
- with hyoscine, for treatment of motion sickness, 1946, 146: 463
- ANABOLISM: see METABOLISM, anabolic**
- ANACROTIC PULSE: see PULSE, anacrotic**
- ANALGESIA**
- adrenaline, 1949, 157: 116
- magnesium, and blood level, 1942, 135: 493
- ANAPHYLAXIS**
- adrenal cortical extract, 1944, 142: 191
- anesthesia and histamine release, 1940, 129: 735
- blood histamine during, 1939, 127: 71; 1939, 127: 78
- Eck fistula dogs, 1946, 146: 488
- extracts of *Ascaris suum*, and hydatid fluid, 1947, 148: 243
- formation of bradykinin in, 1950, 163: 283
- heparin level in, 1951, 165: 200
- hepatectomy, 1940, 130: 379
- shock similar to, 1954, 143: 306
- sympathetic nervous system, 1938, 124: 637
- thrombopenia in, 1945, 145: 273
- ANCONA, G. R.: see TROESCHER-ELAM, ELIZABETH**
- ANCOWITZ, A.: see DE BODO, R. C.**
- ANDERSEN, DOROTHY H. and VICTOR, J.** Artificial oestrus and metabolism of liver, 1938, 122: 113
- See VICTOR, J.
- ANDERSON, A.: see BUCHER, GLADYS R.**
- ANDERSON, C. E.: see BUCHER, GLADYS R.**

- ANDERSON, EVELYN, LINDNER, ERNA and SUTTON VIRGINIA. Assay of insulin in the blood, 1947, 149: 350
- , PAGE, E. W., LI, C. H. and OGDEN, E. Adrenocorticotrophic hormone and renal hypertension, 1944, 141: 393
- See OGDEN, E.
- See PAGE, E. W.
- ANDERSON, G. A.: See LITTLE, J. M.
- ANDERSON, H. D., JOHNSON, B. C. and ARNOLD, A. Composition of dog's milk, 1940, 129: 631
- , UNDERWOOD, E. J. and ELVEHJEM, C. A. Cobalt polycythemia in the rat, 1940, 130: 373
- ANDERSON, J. A.: see COLE, W. H.
- ANDERSON, N. L.: see MARVIN, H. N.
- ANDERSON, R. K.: see HUBBARD, R. S.
- ANDERSON, R. S. Radioactive P and circulating red cell volume, 1942, 137: 539
- ANDREWS, EDNA B.: see SEEGER, W. H.
- ANDROGENS
- alkaline phosphatase of kidney, 1948, 152: 257
- creatinine excretion in castrated monkeys, 1940, 130: 507
- hypophysectomized and castrated rats, 1938, 121: 786
- organ weights, and enzyme content, 1948, 153: 210
- phosphatases of the kidney, 1945, 145: 120
- plasma protein, 1948, 154: 459
- protein anabolism, 1950, 163: 332
- quantitative effect of, 1938, 124: 259
- transfer in parabiotic rats, 1943, 140: 231
- urinary and genital tract phosphatases, 1949, 156: 400
- ANDROSTADIENOLS
- 3, 17-dimethyl- Δ -, 17 β , and body weight of mice, 1949, 158: 54
- 3-methyl- Δ -, 17 β , and body weight of mice, 1949, 158: 54
- ANDROSTANEDIOLS
- 3 α , 17 α , action in guinea pig, 1948, 155: 243
- amount absorbed and organ weights, 1946, 145: 551
- arginase and phosphatase, 1948, 155: 252
- protein anabolism in castrated rat, 1950, 160: 55
- renotrophic and androgenic effects, 1944, 142: 315
- acetate-3, and protein anabolism in castrated rat, 1950, 160: 55
- 3 α , 17 β , and body weight of mice, 1949, 158: 55
- acetate-3, and body weight of mice, 1949, 158: 55
- 3 β , 17 α , amount absorbed and organ weights, 1946, 145: 551
- phosphatases of the kidney, 1945, 145: 120
- 3 β , 17 β , and body weight of mice, 1949, 158: 55
- 17-ethynyl-, -3 β , 17 β , and body weight of mice, 1949, 158: 54
- 17-methyl-, -3 α , 17 α , action in guinea pig, 1948, 155: 243
- amount absorbed and organ weights, 1946, 145: 551
- arginase, and phosphatase, 1948, 155: 252
- protein anabolism in castrated rat, 1950, 160: 55
- 17-methyl-, -3 α , 17 β , and body weight of mice, 1949, 158: 55
- 17-methyl-, -3 β , 17 α , amount absorbed and organ weights, 1946, 145: 551
- 17-methyl-, -3 β , 17 β , and body weight of mice, 1949, 158: 54
- ANDROSTANEDIONES
- body weight of mice, 1949, 158: 55
- 3, 17, protein anabolic effect in castrated rat, 1950, 160: 55
- ANDROSTANOLS
- phosphatases of the kidney, 1945, 145: 120
- 17 α , one-3, action in guinea pig, 1948, 155: 243
- amount absorbed and organ weights, 1946, 145: 551
- arginase and phosphatase, 1948, 155: 252
- kidney phosphatase, 1948, 152: 259
- protein anabolism in castrated rat, 1950, 160: 55
- propionate 17, protein anabolic effect in castrated rat, 1950, 160: 55
- 17 β , one-3, and body weight of mice, 1949, 158: 54
- propionate 17, and body weight of mice, 1949, 158: 54
- 17-methyl-, -17 α , one-3, action in guinea pig, 1948, 155: 243
- arginase and phosphatase, 1948, 155: 252
- 17-methyl-, -17 β , one-3, and body weight of mice, 1949, 158: 54
- ANDROSTENEDIOLS
- hypophysectomized and castrated animals, 1938, 121: 787
- Δ -, -3 β , 17 β , and body weight of mice, 1949, 158: 54
- 17-ethynyl- Δ -, -3 β , 17 β , and body weight of mice, 1949, 158: 54
- 17-methyl- Δ -, -3 β , 17 β , and body weight of mice, 1949, 158: 54
- ANDROSTENEDIONES
- Δ -, -3, 17, and body weight of mice, 1949, 158: 55
- protein anabolic effect in castrated rat, 1950, 160: 55
- Δ 4-, -3, 17, amount absorbed and organ weights, 1946, 145: 551
- ANDROSTERONES
- acetate, protein anabolic effect in castrated rat, 1950, 160: 55
- body weight of mice, 1949, 158: 54
- dehydro-, hypophysectomized and castrated animals, 1938, 121: 787
- protein anabolic effect in castrated rat, 1950, 160: 55
- ANDRUS, W. DEW., LORD, J. W., JR. and STEFKO, P. Action of pedicle jejunal grafts on gastric secretion, 1944, 141: 75
- , LORD, J. W., JR., STEFKO, P. and DINGWALL, J. A. III. Saline washings of jejunal loop and gastric secretion, 1943, 140: 287
- See PAGE, I. H.
- ANEMIA
- acute, and sympathetic ganglion, 1938, 121: 261
- antacids and iron retention, 1942, 137: 708
- bile pigment and interrelation in dogs, 1939, 126: 326
- chronic, renal function in, 1951, 164: 682
- copper and iron deficiencies, blood picture in, 1944, 142: 180

- dietary, blood picture in, 1944, 141: 356
following gastrectomy, 1947, 150: 418
following splenectomy, and cholesterol feeding, 1947, 149: 1
heart rate, 1944, 142: 695
hemoglobin production in, 1941, 134: 263
hemolytic, from feeding fat and choline, 1945, 144: 444
hemorrhagic, copper and hematopoiesis in, 1944, 141: 322
relative value of ferric and ferrous iron, 1945, 143: 193
hyperchromic, experimental production in dog, 1944, 142: 402
produced by choline or acetylcholine, 1946, 147: 404
in ducks, 1946, 146: 224
iron deficiency, and ferrous and ferric iron, 1945, 143: 193
low-protein diet and correction by cobalt, 1945, 144: 464
pernicious, serum from and bone marrow cultures, 1948, 153: 483
production of by hemorrhage and lack of folic acid, 1944, 142: 604
pyridoxine deficiency, 1945, 143: 435
at various protein levels, 1946, 146: 724
riboflavin deficiency, 1938, 122: 154; 1945, 145: 61
xanthopterin and, 1948, 153: 136
- ANEMIC ANOXIA: see ANOXIA, ANEMIC**
- ANESTHESIA**
Bazett's K value, 1951, 166: 585
block, reduction of central hyper-irritability by, 1948, 152: 658
blood concentration, 1943, 138: 459
blood gas transport, 1948, 153: 81
blood sugar changes due to alloxan, 1950, 160: 228
blood supply to hypothalamus, 1940, 129: 650
body temperature, 1942, 137: 259; 1943, 140: 185
brain acetylcholine, 1949, 159: 250
brain lactic acid, 1948, 154: 75
change in chemical composition of blood of rat in, 1950, 160: 277
cutaneous blood flow, 1943, 140: 182
electrical activity of sensorimotor cortex, 1938, 121: 27
flow and cell content of thoracic duct lymph, 1950, 160: 9
hematocrit, 1943, 140: 185
histamine release in anaphylaxis, 1940, 129: 735
intestinal absorption, 1940, 129: 180
local, shock and, 1945, 143: 127
measurements of coronary blood flow, 1950, 162: 521
oxygen consumption, 1943, 140: 184
paroxysmal tachycardia, 1948, 153: 553
pulse, 1939, 128: 240
secretion and flow of bile, 1941, 132: 32
spinal, blood volume and, 1950, 161: 239
preventing shock, 1944, 140: 493
spleen, 1938, 121: 387
tourniquet shock and duration, 1945, 144: 495
- ANESTRUS**
acetylcholine relaxation of oviduct, 1940, 131: 240
- ANGERER, C. A.: see GONZALEZ, Q., J.**
- ANGIOTONIN**
blood flow, 1940, 130: 335
blood pressure, 1950, 160: 422
in fetal rat, 1942, 137: 479
and renal blood flow, 1941, 135: 88
cardiac systole and cycle relations, 1948, 154: 10
circulatory system, 1944, 141: 129
contraction of intestinal segments, 1940, 130: 29
glomerular filtration, 1940, 130: 335
hypotension and shock, 1944, 141: 134
liberation in experimental hypertension, 1940, 130: 22
nephrectomy and response to, 1941, 135: 124
pressor response to, in dogs, 1941, 134: 789
TEA and response to, 1949, 157: 161
vagal control of cardiac activity, 1943, 139: 677
vascular reactivity to, 1949, 156: 415
- ANGRIST, A.: see INNERFIELD, I.**
- ANILINE**
adrenaline oxidation by tyrosinase, 1942, 136: 67
interfacial tension between, and water, 1946, 145: 612
methemoglobinemia produced by, 1943, 139: 64
muscle sensitivity to acetylcholine and potassium, 1946, 145: 610
- ANIMAL PROTEIN FACTOR**
concentrate fed to lamb, 1950, 163: 418
- ANNEGERS, J. H. and IVY, A. C.** Effect of dietary fat on gastric evacuation, 1947, 150: 461
— *See* COBURN, FRANCES F.
— *See* HEERSMA, J. R.
- ANOREXIA**
due to restriction of B vitamins, 1945, 144: 23
- ANOXEMIA**
adrenaline in, 1948, 152: 623
adrenaline in respiratory response, 1950, 161: 51
anemic, respiratory response to, 1941, 132: 433
anoxic, relation to hyperventilation, 1941, 132: 433
blood flow in bronchial artery, 1947, 148: 662
due to CO and cervical lymph, 1941, 133: 170
and CSF pressure, 1941, 133: 180
lung lymph flow, 1942, 136: 213
of carotid body, peripheral vasomotor effects, 1938, 121: 3
pulmonary ventilation on, 1946, 146: 617
respiratory response to, 1938, 121: 692; 1941, 133: 1; 1947, 148: 406
respiratory and circulatory responses to oxygen, 1939, 127: 228
sympathectomy, 1939, 125: 536
ventilation and circulation in man, 1941, 132: 426
- ANOXIA**
abdominal chemoreceptor, 1946, 147: 654
acclimatization to, and gastric emptying, 1942, 137: 160
acetylcholine content and choline esterase activity of frog brain, 1941, 132: 588
acute, pressor response to, 1948, 154: 397
progressive, in man, 1943, 138: 593
pulmonary artery pressure, 1947, 150: 316
adrenal cortex, 1942, 137: 606
adrenocorticotrophic hormones, 1945, 143: 550

ANOXIA

- age, survival and, 1943, 139: 366; 1944, 140: 609
- tolerance and, 1941, 134: 281
- anticonvulsants and resistance to, 1944, 141: 7
- aortic chemoreceptors and, 1939, 127: 178
- blood pressure and, 1939, 128: 187
- blood sugar and hemoglobin responses, 1951, 167: 559
 - resistance to, 1946, 146: 26
- blood sugar response to, 1948, 155: 10
- body glycogen, 1944, 140: 478
- brain metabolism, 1945, 144: 334
- brain potentials, 1942, 137: 703
- buoyancy of body, 1942, 137: 141
- caloric deprivation, thiamin deficiency and resistance to, 1944, 140: 605
- carbohydrate regulation in, 1944, 140: 474
- cardiac output in, 1948, 154: 393
- cardiac responses to, 1943, 138: 765
- cardio-respiratory events in, 1950, 160: 138
- carotid body, 1942, 136: 203
- central stimulation of respiration during, 1942, 136: 15
 - changes in blood pH, 1944, 142: 485
 - chemical composition of brain, 1941, 132: 770
 - cobalt and work performance in, 1943, 139: 399
 - cochlear potentials, 1949, 159: 199
 - convulsions in, 1940, 130: 261; 1950, 162: 503
 - coronary blood flow, 1942, 135: 279; 1947, 148: 593
 - cortical recovery after, 1944, 141: 410
 - dangers in oxygen therapy, 1944, 142: 483
 - deafferented vasomotor center, 1951, 166: 45
 - depolarization of spinal cord, 1946, 147: 673
 - development of respiration in duck, 1938, 121: 705
 - dextrose and insulin tolerance, 1948, 152: 252
 - discontinuous, chemoreceptors and oxygen saturation, 1951, 164: 226
 - chronic, and liver glycogen, 1947, 150: 65
 - due to low barometric pressure: *see* ALTITUDE, HIGH
 - elasticity of tortoise ventricle, 1939, 125: 445
 - electrocardiogram, 1944, 142: 452
 - exposure to low barometric pressure, 1947, 150: 1
 - factors affecting survival in, 1944, 142: 310
 - failure of visual pathway during, 1950, 161: 573
 - fat absorption, 1945, 143: 393
 - flow of lung lymph, 1942, 137: 647
 - gastric secretion, 1939, 127: 637
 - glomerular function, 1938, 122: 676
 - glucose and gasping pattern in, 1944, 141: 299
 - glucose utilization, 1946, 146: 493
 - histotoxic, adaptation to, 1950, 163: 125
 - humidity and body temperature changes during, 1950, 161: 312
 - temperature and survival, 1950, 161: 307
 - hyperoxic, 1940, 130: 451
 - in carotid sinus reflex in convulsions, 1942, 137: 404
 - in explosive decompression injury, 1950, 160: 361
 - in renal cortex, and production of pressor substance, 1941, 132: 497
 - in shock, 1944, 142: 299
 - influence in phosgene gassing, 1946, 147: 335
 - inspiratory tonus in, 1945, 143: 140
 - insulin sensitivity, 1938, 121: 358
 - interaction of, and hypoglycemia, 1940, 129: 610; 1942, 136: 2
 - intercranial pressure, 1939, 128: 186
 - intestinal absorption, 1941, 134: 288
 - of salts, 1940, 129: 618
 - intestinal motility, 1951, 167: 103
 - intestinal peristalsis, 1943, 140: 121
 - iodide metabolism in, 1951, 167: 576
 - liver water and electrolytes, 1945, 145: 33
 - lymph flow, 1942, 136: 213
 - metabolism and contractility of muscle, 1950, 162: 88
 - metabolism of cardiac muscle, 1949, 158: 254
 - cerebral cortex, 1945, 144: 683
 - of heart slices, 1950, 163: 642
 - mobilization of red cells and oxygen from spleen, 1951, 165: 215
 - nature of pupillary dilatation in, 1945, 143: 282
 - nerve action potential, 1947, 148: 180
 - of bone marrow, and erythropoiesis, 1947, 150: 640
 - of liver slices, and in vitro O₂ consumption, 1945, 144: 669; 1946, 147: 181
 - O₂ consumption body temperature, 1949, 156: 62
 - peripheral blood flow, 1938, 124: 735
 - peripheral nerves, 1946, 147: 78
 - physiology of, in rat, 1946, 146: 319
 - polycythemia, 1949, 156: 158
 - carrot diet in resistance to, 1943, 140: 304
 - pressor response to, 1948, 154: 397
 - produced by high O₂ pressure on smooth muscle, 1940, 130: 445
 - pulmonary ventilation, and blood gases, 1943, 138: 659
 - pulse rate response to acceleration, 1948, 152: 158
 - reactivity of pulmonary blood vessels to, 1951, 167: 732
 - reduction of blood through lung, 1951, 166: 37
 - renal function, 1948, 154: 193; 1948, 154: 201
 - resistance to, in new-born, 1942, 135: 387
 - various factors, 1945, 145: 190
 - vitamin B complex, 1944, 141: 179
 - resistance to G forces, 1946, 146: 43; 1949, 156: 137
 - respiration, and glycolysis of bone marrow, 1941, 135: 252
 - respiratory adjustment to CO₂, 1940, 129: 47
 - respiratory changes in, 1947, 148: 394
 - respiratory flow in sharks, 1945, 145: 137
 - respiratory response of newborn, 1938, 121: 245
 - respiratory and circulatory responses to, 1947, 149: 282
 - response to CO₂, 1942, 137: 257
 - sensitivity of auditory area to, 1951, 164: 748
 - serum potassium, 1943, 139: 689
 - smooth muscle response to drugs, 1951, 164: 565
 - somatic and autonomic centers, 1942, 135: 642
 - spinal cardiovascular centers, 1945, 143: 704
 - susceptibility to progressive, 1948, 153: 87
 - temperature regulation, 1948, 153: 10
 - thyroid and, 1951, 167: 171
 - thyroxin and radiation, 1951, 165: 651
 - tolerance to, 1947, 151: 538; 1948, 155: 366
 - and polycythemia, 1947, 148: 152
 - urinary output during anesthesia, 1946, 147: 616

- urine secretion and blood pressure, 1940, 129: 533
- vago-insulin and sympathetico-adrenaline systems under, 1940, 131: 281
- venous pressure and circulation in, 1943, 138: 593
- visual after-image and, 1943, 140: 358
- visual thresholds, 1944, 142: 333
- work and, 1947, 150: 214; 1947, 151: 588
- ANOXIA, ANEMIC**
 - gastrointestinal motility, 1944, 142: 261; 1944, 142: 615
 - intestinal motility of mature and immature animals, 1951, 167: 104
 - leucocyte count, 1943, 140: 301
- ANOXIA, ANOXIC**
 - cardiac muscle, 1947, 150: 493
 - central nervous system, 1943, 140: 291
 - explosive decompression injury, 1949, 157: 88
 - intestinal motility, 1944, 142: 615
 - of mature and immature animals, 1951, 167: 104
 - leucocyte count, 1943, 140: 300
 - myoglobin, 1949, 156: 44
 - O₂ consumption in, 1946, 146: 321
 - O₂ consumption of tissue following, 1945, 144: 88
- ANSBACHER, S.:** *see* MARTIN, G. J.
- ANSLOW, W. P., JR.:** *see* WESSON, L. G., JR.
- ANTACIDS**
 - iron retention, 1942, 137: 706
- ANTELOPE, ADDAX**
 - blood sugar level, 1950, 162: 438
- ANTERIOR CARDIAC VEINS**
 - function, 1943, 139: 732
- ANTERIOR OLFACTORY NUCLEUS**
 - respiration in frog, 1942, 136: 53
- ANTERIOR PITUITARY GLAND**
 - acidophilic cells and blood sugar levels, 1939, 125: 457
 - adrenal cortex in metabolism, 1940, 128: 552
 - adrenaline hyperglycemia, 1942, 137: 124
 - antagonism to estrogens, 1948, 152: 131
 - to lipocaic, 1943, 138: 264
 - blood sugar level, 1942, 137: 673
 - choline deficiency and, 1950, 162: 375
 - cholinesterase in, 1947, 148: 677
 - diabetes insipidus, 1941, 132: 141
 - glycotropic substance of, 1939, 128: 270
 - metabolism and, 1944, 141: 662; 1948, 155: 18; 1948, 155: 24
 - N.P.N. of blood, 1942, 137: 200
 - protein and carbohydrate metabolism, 1942, 136: 132
 - renal function, 1942, 136: 584; 1943, 139: 546
 - thyroid, 1948, 152: 263
 - work performance, 1938, 123: 620
- ANTERIOR PITUITARY HORMONES**
 - action of insulin, 1938, 124: 774
 - adrenalectomy and ketogenic action of, 1939, 126: 756
 - carbohydrate metabolism, 1938, 121: 755; 1942, 136: 95
 - cardiac output and O₂ consumption, 1947, 151: 240
 - formalin and, 1939, 127: 497
 - glycotropic, 1939, 128: 273
 - hyperglycemic, in diabetic urine, 1939, 125: 566
 - increase of liver fat by, 1940, 131: 27
 - ketosis and, 1948, 152: 210
 - lactation, 1947, 150: 398
 - lipid composition of adrenals, 1940, 131: 291
 - liver fat, 1946, 147: 742
 - liver weight, 1942, 135: 400
 - lyophilized, assay of nephrosclerosing action, 1946, 147: 299
 - normal and alloxan diabetic animals, 1947, 150: 87
 - prevention of depression of O₂ consumption by insulin, 1938, 124: 786
 - rat testis, 1938, 122: 319
 - renal hypertension, 1940, 130: 570
 - retention of water and salt, 1939, 125: 421
 - sensitivity to adrenine, 1938, 121: 555
 - survival of primitive respiratory center after decapitation, 1945, 144: 658
 - survival time of decapitated head, 1944, 142: 154
 - urine nitrogen, 1942, 137: 544
- ANTERIOR TIBIAL MUSCLES**
 - reflexes after cord asphyxiation, 1944, 142: 431
 - segmental innervation, 1943, 138: 773
- ANTI-FATTY LIVER FACTOR:** *see* LIPOTROPIC FACTORS
- ANTI-INSULIN SUBSTANCE:** *see* ANTERIOR PITUITARY HORMONES
- ANTI-PRESSOR FACTORS**
 - experimental renal hypertension, 1943, 139: 293
- ANTI-XANTHOPTERIN**
 - bone marrow cells, 1948, 153: 496
- ANTIA, F., ROSIERE, C. E., ROBERTSON, CHARLOTTE and GROSSMAN, M. I.** Vagotomy in dogs, 1951, 166: 470
- ANTICEPHALIN ACTIVITY**
 - of normal and hemophilic plasmas, 1945, 143: 67
- ANTICOAGULANTS**
 - tissue, action of, 1944, 141: 339
- ANTIDIURESIS:** *see* DIURESIS, anti-
- ANTIDIURETIC SUBSTANCES**
 - excretion of, 1939, 127: 544; 1941, 134: 240
 - in hypertension, 1943, 138: 465
 - in urine after adrenalectomy, 1939, 127: 55
 - fluid intake, and pressor response, 1948, 155: 290
 - possible sites of excretion, 1939, 127: 544
- ANTIFIBRINOLYSIS**
 - measurement of, in chicken plasma, 1947, 150: 665
- ANTIGEN N**
 - inflammation and, 1951, 166: 341
- ANTIGENS**
 - comparison with T-1824 as measure of plasma volume, 1950, 163: 517
- ANTIGONADOTROPIC SUBSTANCES**
 - gonadal development, 1942, 136: 294
 - mechanism of inhibition of gonadotropin hormone, 1945, 145: 181
 - of lithospermum ruderae, 1951, 167: 379
- ANTIHEMOPHILIC FACTOR**
 - utilization for clotting, 1951, 164: 710
- ANTIPROTHROMBIN**
 - assay of prothrombin and, 1941, 134: 47
- ANTIPYRINE**
 - measurement of body water, 1950, 162: 313

ANTISTINE

- blood pressure, 1951, 164: 71
- potassium distribution, 1950, 163: 154
- reticulo-endothelial system, 1951, 164: 825

ANTITHROMBIN

- immediate, quantitative effects, 1941, 134: 54
- in stored human plasma, 1947, 150: 385
- normal in blood, 1938, 123: 712

ANTITHROMBOPLASTIN

- of plasma, 1943, 139: 265
- of stored human plasma, 1947, 150: 385
- protection from placental toxin, 1947, 149: 123

ANTOS, R. J.: *see* GREEN, H. D.ANTU: *see* ALPHA-NAPHTHYL THIOUREAANTUITRIN-S: *see* GONADOTROPINS, chorionicANTUITRIN-T: *see* THYROTROPIC HORMONE

ANURIA

- post-traumatic, 1951, 164: 686
- tetrathionate injection and, 1946, 147: 119

ANUS, ARTIFICIAL

- production of, in chicken, 1942, 136: 658

ANXIETY

- nor-adrenaline and, 1951, 166: 314

AORTA

- age and, 1948, 153: 300
- arterial pulse wave in, 1949, 158: 287
- chemoreceptors of, 1939, 127: 176
- coarctation of, and pulse pressure, 1948, 152: 554
- diastolic volume of, 1945, 144: 541
- emptying of segments of arterial reservoir, 1939, 127: 785
- hemodynamics of occlusion, 1949, 157: 168
- histo-physics of, 1939, 125: 1
- hypertension, 1938, 124: 603
- insufficiency, arterial pulse dynamics in, 1949, 158: 294
- occlusion, and cardiac systole and cycle relationships, 1948, 154: 10
- of cat, *streamline blood flow* in, 1945, 144: 709
- pressure, and coronary blood flow, 1940, 130: 108
- coronary circulation, 1940, 130: 126
- intramyocardial pressure, 1939, 125: 234
- stroke volume of heart, 1948, 153: 287
- pressure gradient, in hemorrhagic shock, 1946, 146: 202
- pressure pulse, reconstruction of, 1939, 125: 50
- pulse wave, transmission velocity of, 1939, 125: 61
- reactions in hypotension and shock, 1943, 138: 491
- standing waves of blood pressure in, 1939, 125: 48
- stenosis, analysis of peripheral pulse in, 1940, 131: 432
- stretch-tension curves, 1945, 144: 537
- velocity and form changes of artificial pulse wave, 1945, 144: 531
- velocity of pulse wave, 1939, 125: 60
- volume-pressure relations, 1945, 144: 547

AORTIC BODY

- denervation of, and vasomotor response to hypoxia, 1951, 166: 45

AORTIC NERVES

- section and heart volume, 1950, 161: 470
- and response to tipping, 1946, 147: 661

Aoudad: *see* SHEEP, wildAPE: *see* ANTERIOR PITUITARY HORMONES

APNEUSIS

- CO₂ and, 1938, 124: 498
- in cat, 1950, 160: 385
- in dog, 1949, 158: 159
- possible respiratory linkages in, 1939, 126: 702

APOFERRITIN: *see* FERRITIN

APOMORPHINE

- emesis due to vagotomy, 1947, 149: 442

A.P.P.: *see* ANTERIOR PITUITARY HORMONES

APPARATUS (FOR)

- action potentials of stomach, 1945, 144: 694
- alternating inflow and outflow of blood, 1951, 164: 362
- analysis of CO₂ and O₂, 1947, 149: 597
- ballistocardiograph, design, 1944, 142: 1
- bicycle ergometer, work on after training, 1946, 146: 424
- bubble flow meter, compared with Fick Principle method, 1950, 160: 547
- cannula, bronchospirometric, 1949, 157: 318
- intrasinus pressure in coronary sinus, 1938, 124: 445
- capillary microrespirometer, nerve O₂ consumption, 1950, 162: 458
- catheter, special cardiac, acute cor pulmonale, 1951, 164: 258
- circulating aortic-pressure compensator, 1938, 122: 309
- conductivity cell, frog muscle changes, 1947, 148: 493
- congesting mesenteric vessels, 1940, 130: 412
- constant pressure perfusion, 1950, 162: 267
- determination of evaporation and O₂ uptake in small mammal, 1950, 162: 32
- Drinker respirator, at high altitude, 1949, 156: 54
- electronic timer, for controlling defibrillation stimuli, 1951, 167: 82
- ergograph, for measuring exercise, 1938, 122: 576
- flame photometer, determinations of sodium and potassium, 1948, 153: 428
- flow recorders, evaluation of results obtained, 1948, 153: 155
- Geiger tube, renal circulation time with isotopic phosphorus, 1951, 164: 619
- Gooch tubing, velocity of pressure pulses in, 1945, 144: 522
- hand plethysmocalorimeter, temperature and blood flow, 1947, 150: 306
- manometer, differential, blood pressure, 1939, 125: 132
- measuring coronary blood flow, 1942, 135: 271
- electrolytic resistance of blood clot, 1949, 158: 367
- gastric secretions and electrical potentials, 1944, 141: 538
- speed of oxyhemoglobin reduction in vivo, 1946, 147: 624
- thermal regulation in dog, 1950, 162: 303
- metabolism chamber, for circulatory and metabolic reactions, 1950, 163: 63

- microelectrode, single cardiac muscle fiber, 1951, 164: 308
 - moat chamber, technique of observing capillary permeability, 1946, 147: 237
 - model of atrial septal defects, 1949, 158: 247
 - muscle chamber, diagram of, 1938, 124: 503
 - needle electrode, Ag/AgCl, pH determinations in vivo, 1946, 146: 2
 - Noble-Collip drum, shock due to trauma in, 1943, 139: 123
 - oncometer, construction of for liver, 1938, 124: 648; 1938, 124: 704
 - open-circuit, for measuring O₂ consumption in rats, 1950, 161: 360
 - orifice meter, blood flow recorded with, 1948, 153: 156
 - oximeter, to determine normal human arterial O₂ saturation, 1948, 152: 365
 - perfusing carotid body at various temperatures, 1939, 127: 96
 - brain in living cat, 1947, 149: 523
 - photoelectric strohmuhr, for measuring blood flow, 1938, 123: 544
 - providing different loads to oppose flexion of arm, 1947, 151: 416
 - pulmotor, at high altitude, 1949, 156: 54
 - restraining animals during radial acceleration, 1947, 151: 356
 - rotary pursuit maze, psychomotor efficiency on B vitamin restrictions, 1946, 147: 44
 - simultaneous perfusion of cognate and collateral arteries, 1944, 140: 728
 - single pursuit meter, psychomotor efficiency on B vitamin restrictions, 1946, 147: 44
 - skin calorimeter, drawing of, 1939, 125: 317
 - spirometer, schematic diagram of circuit, 1950, 160: 126
 - stirring under reflux, 1944, 141: 670
 - strain gauge dynamometer, isolated human muscle, 1947, 151: 613
 - stretch-tension apparatus, rapidly increased tensions, 1945, 144: 527
 - studying cardiac output and peripheral resistance, 1944, 140: 523
 - thermocouple, tissue and skin temperature, 1947, 150: 310
 - Thunberg barospirator, at high altitude, 1949, 156: 54
 - tilt board (Eve), artificial respiration at high altitude, 1949, 156: 53
 - tonometer, gas tension in blood, 1950, 160: 164
 - volumeters, O₂ metabolism in tissues, 1939, 127: 287
 - weighing bottle, with mace, dry weight of brain, 1949, 157: 123
- APPENDIX**
- distribution of radioactive colloidal gold in, 1951, 164: 830
 - histamine content, 1938, 124: 416
- APPERLY, F. L.** Early blood changes at moderate altitudes, 1938, 122: 179
- APPETITE**
- adrenalectomy, 1943, 139: 70
 - atropine, 1949, 157: 149
 - components of vitamin B complex, 1941, 131: 639
 - during recovery from starvation, 1951, 166: 566
 - factors, 1948, 155: 28; 1949, 159: 143
 - for food and water in rats, 1947, 151: 110
 - growth-depressing action of estrogens, 1949, 159: 284
 - high protein diet, 1941, 135: 195
 - in dog, 1948, 153: 27
 - intravenous glucose, 1949, 156: 87
 - ligation of bile duct, 1942, 138: 71
 - nutritive density of food, 1949, 158: 184
 - on yellow corn diet and vitamin D, 1943, 139: 693
 - stomach and, 1943, 138: 314
 - thiamine deficiency, 1938, 124: 596
 - thyroid abnormality, 1943, 139: 139
- APPLEMAN, D.:** *see* STEIN, A. M.
- AQUEOUS HUMOR**
- chemical mediators, 1938, 124: 271
 - chloride content, 1938, 122: 228; 1940, 129: 600
 - entrance of sodium, 1944, 142: 29
 - osmotic relation to blood plasma, 1940, 130: 340
 - passage of sorbitol from blood, 1939, 125: 654
 - penetration of sugars, 1942, 137: 421
 - studies on, 1941, 134: 1
- ARABINOSE**
- feeding and nitrogen excretion, 1947, 150: 391
 - heart rate, 1940, 129: 295
- ARANA, R.:** *see* LEIMDORFER, A.
- ARANA, S.:** *see* GRODINS, F. S.
- ARANGO, N. I.:** *see* MICHAELIS, M.
- ARANTHOL**
- cardiac output, 1949, 157: 353
- ARCHDEACON, J. W. and ALLEN, R. S.** Urges to eat and drink, 1948, 153: 27
- , PRESNELL, M. W. and WALTON, C. J. Effects of atropine on dogs, 1949, 157: 149
- ARCHIBALD, R. M.:** *see* PHILLIPS, R. A.
- ARCTIC UNIFORM**
- conditions for adequacy in extreme cold, 1947, 149: 234
- ARGINASE**
- androgens and liver and kidney content of, 1948, 153: 210
 - castration and steroids, 1948, 155: 251
 - estrogens, 1947, 151: 126
 - and testosterone, 1948, 155: 265
 - hormones, 1948, 155: 265
 - liver, and pituitary, 1943, 138: 439
 - testosterone, and growth hormone, 1948, 155: 262
 - tissue, high protein, and high carbohydrate diet, 1948, 154: 489
- ARGININE**
- renal clearance, 1947, 149: 131
 - tubular reabsorption, 1944, 140: 537; 1947, 151: 204
- ARGON**
- for deep sea diving, 1939, 126: 409
- ARIEL, I., BALE, W. F., DOWNING, V., HODGE, H. C., MANN, W., VAN VOORHIS, S., WARREN, S. L. and WILSON, HELEN J.** Distribution of radioiodine in rabbit, 1941, 132: 346

- ARIMOTO, F., NECHELES, H., LEVINSON, S. O. and JANOTA, MARTHA. Hemorrhagic shock, 1945, 143: 198
- ARM
changes in blood content and blood flow, in skin of, 1947, 150: 127
forces exerted in movement, 1947, 151: 415
- ARMADILLO
blood sugar and body temperature changes on emotional excitation, 1939, 125: 731
- ARMINIO, J.: *see* WALD, G.
- ARMSTRONG, C. W. J.: *see* CLEGHORN, R. A.
- ARMSTRONG, G. G.: *see* GUYTON, A. C.
- ARMSTRONG, W. D.: *see* BARNUM, C. P.
- ARMY PACK
postural stability and stance, 1944, 140: 646
- ARNETT, V., KESSLER, M. and GELLHORN, E. Adrenal cortex and hypoglycemic convulsions, 1942, 137: 653
- ARNOLD, A. and ELVEHJEM, C. A. Thiamin requirement of dogs, 1939, 126: 289
— *See* ANDERSON, H. D.
- ARSANILAC-AZO-OVALBUMIN
response of mucosal and peritoneal surfaces of ileum, 1946, 145: 678
- ARSENATE
blocking of epinephrine cardio-acceleration, 1950, 163: 492
- ARSENIC
hemoglobin level, 1946, 145: 502
nutrition of rat and, 1938, 124: 205
- ARSENIC TRIOXIDE
hypothermia due to, 1945, 143: 637
muscular atrophy, 1949, 159: 7
tolerance in rat, 1945, 143: 635
- ARSENITE
absorption from gut, 1945, 144: 468
blocking of epinephrine cardio-acceleration, 1950, 163: 492
metabolism of tissues, 1943, 139: 719
O₂ consumption of frog muscle, 1941, 135: 241
PAH accumulation in kidney slices, 1950, 161: 189
renal electrolyte metabolism, 1951, 167: 208
renal electrolyte, and water metabolism, 1951, 167: 207
respiration, of fish kidney, 1950, 161: 170
of tissues, 1945, 143: 641
- ARTERENOL: *see* NOR-EPINEPHRINE
- ARTERIAL BLOOD
CO₂ tension, during acclimatization to high altitude, 1947, 149: 571
pulmonary ventilation, 1946, 146: 617
comparison with venous blood for Tm_O, 1951, 165: 407
determination of O₂, 1944, 142: 709
insulin and pH, 1939, 125: 680
O₂ tension, 1942, 137: 238; 1944, 142: 704; 1946, 147: 54
potassium rise due to epinephrine, compared to venous, 1939, 126: 711
time-concentration curves of injected substances, 1947, 148: 35
- ARTERIES
capacity per square meter body surface, at different pressures, 1947, 148: 15
dimensions measured at 100 mm Hg pressure, 1947, 148: 26
mechanical stimulation and circulatory collapse, 1944, 141: 722
of skin, vasoconstrictor reflexes, 1941, 134: 59
peripheral, flow pattern, 1943, 138: 718
vasomotor drugs and flow and patterns, 1943, 138: 731
pressure pulse patterns, 1944, 141: 235
streamline blood flow, 1945, 144: 706
vasoconstrictor stimuli, 1940, 130: 56
volume per square meter body surface at various pressures, 1947, 148: 27
- ARTHRITIS
anaphylactic, and hormones, 1951, 166: 341
- ARTICULAR REFLEXES: *see* JOINT REFLEXES
- ARTIFICIAL RESPIRATION
efficiency at various altitudes, 1949, 156: 52
electrophrenic, 1948, 155: 1
helmet for cat, 1948, 155: 209
negative pressure breathing, skin cooling due to, 1948, 152: 122
positive pressure breathing, and blood flow through finger, 1947, 151: 270
cardiac output, 1948, 152: 162
circulation, 1947, 151: 258
fluid shifts during, 1948, 155: 208
skin cooling, 1948, 152: 122
reflexogenic breathing, in dogs with nerve block, 1940, 130: 155
volume of air moved by, in anesthetized men, 1942, 137: 649
see also RESUSCITATION
- AS: *see* ATROPINE
- ASCARIS SUUM
shock produced by extract of, 1947, 148: 243
- ASCORBIC ACID
adrenal, cortisone and response to stress, 1951, 165: 467
adrenaline oxidation by tryrosinase, 1942, 136: 67
blood coagulation, 1940, 130: 576
clotting time, 1945, 144: 453
deficiency and capillary permeability, 1950, 161: 283
enzymatic inactivation of thrombin, 1950, 162: 665
epithelial cells in tissue culture, 1943, 139: 21
excretion, 1940, 130: 277; 1945, 144: 59
at each urination, 1940, 128: 584
during healing of skin, 1948, 152: 446
estrogen administration, 1943, 140: 261
on various levels of intake, 1946, 145: 628
experimental polycythemia, 1940, 129: 142; 1949, 158: 317
hemorrhagic shock, 1946, 147: 598
in urine, blood, and feces, on various diets, 1947, 148: 624
intake at Army training centers, 1945, 144: 590
isolated renal tubules, 1944, 141: 138
metabolism, 1951, 166: 374

- of adrenals, 1950, 160: 493; 1950, 160: 502
 blood sugar levels, surgical conditions and, 1950, 163: 96
 glutathione and, 1951, 164: 770
 of blood, electrolytes in, 1951, 166: 376
 of guinea pigs with scurvy, 1940, 130: 310
 of urine, electrolytes in, 1951, 166: 376
 of uterus, 1940, 128: 655
 oxidation, thyroxine and, 1951, 167: 349
 phosphatases of male genital tract, 1941, 133: 82
 plasma and urine electrolytes, 1951, 166: 376
 potassium deficiency and adrenal content, 1951, 165: 131
 pregnancy and content in various organs, 1940, 128: 655
 renal clearance, 1944, 141: 425; 1944, 142: 182
 resistance to reduced pressure, 1945, 145: 131
 response to epinephrine, 1943, 140: 372
 salt restriction and adrenal content, 1951, 165: 130
 synthesis of, manganese and, 1946, 145: 566
 mannose and, 1946, 145: 566
 tubular transport mechanism for Na and K and, 1951, 165: 109
- ASDELL, S. A. and SALISBURY, G. W. Viability of spermatozoa, 1941, 132: 791
 — See BOGART, R.
- ASEPTIFORM
 adrenaline oxidation by tyrosinase, 1942, 136: 67
- ASHBURN, L. L.: *see* HUNDLEY, J. M.
- ASHER, R.: *see* KATZ, L. N.
 — See PERLOW, S.
 — See SHLESER, I. H.
- ASHKENAZ, D. M. Nerve impulse frequency and vasomotor reflexes, 1939, 125: 119
- ASHMAN, R., FERGUSON, F. P., GREMILLION, ALICE I. and BYER, E. T. deflection of electrocardiogram, 1945, 143: 453
- , WILDE, W. S. and DRAWE, CATHERINE E. Doublet theory of cardiac action current, 1940, 128: 547
 — See BYER, E.
 — See CHURNEY, L.
- ASHWORTH, C. T. and GILL, A. J. Induced variations in cell fluid volume, 1944, 142: 435
- , HUTCHESON, Z. W., PAYNE, W. T. and JESTER, A. W. Response of body fluids to injected substances, 1944, 140: 589
- , JESTER, A. W. and GUY, E. L. Loss of fluid protein from bloodstream in shock, 1944, 141: 571
- , MUIRHEAD, E. E. and HILL, J. M. Effect of hypertonic plasma on body fluids, 1942, 136: 194
- , MUIRHEAD, E. E., THOMAS, O. F. and HILL, J. M. Thiocyanate method and distribution of body fluids, 1943, 139: 255
- ASHWORTH, U. S. and COWGILL, G. R. Metabolism in hypophysectomized rats, 1938, 122: 373
- ASMUSSEN, E. Cardiac output in rest and work in humid heat, 1940, 131: 54
 — and CHODI, H. P. Effect of hypoxemia on ventilation and circulation, 1941, 132: 426
- and CONSOLAZIO, F. C. Circulation in rest and work on Mt. Evans, 1941, 132: 555
- , WILSON, J. W. and DILL, D. B. Hormones and carbohydrate metabolism during work, 1940, 130: 600
- ASPARTIC ACID
 blood coagulation, 1940, 130: 576
- ASPHYXIA
 blood acid-base balance during and after, 1946, 147: 433
 blood and tissue gases during, 1948, 152: 687
 blood pH before and during, 1939, 128: 144
 blood potassium in, 1938, 124: 192
 blood pressure, 1939, 128: 187
 carotid body, 1942, 136: 204
 coronary blood flow, 1942, 135: 279
 crossed phrenic phenomenon, 1941, 134: 105
 depolarization in cerebral cortex due to, 1947, 150: 546
 in spinal cord, 1946, 147: 669
 differential sensitivity of A, B, and C fibers, 1939, 127: 257
 hypothermia and effects on liver, 1947, 149: 556
 index of auriculo-ventricular conductivity, 1939, 127: 276
 lactic acid and potassium movement, 1940, 131: 494
 metabolic changes in, 1948, 152: 687
 motor neurons following partial denervation, 1939, 126: 737
 potassium loss from stimulated muscle, 1938, 124: 214
 pressor response to, and TEA, 1950, 163: 554
 pupillary dilatation in, 1945, 143: 282
 reciprocal innervation, 1939, 128: 16
 reflex inhibition, 1939, 128: 14
 resistance of synaptic conduction to, 1941, 133: 572
 resuscitation from, 1949, 156: 145
 spinal cord, and pain sensibility, 1940, 131: 1
 spinal shock, 1940, 129: 518
 tone and tendon reflexes after, 1943, 139: 617
 spinal cord metabolism, 1942, 138: 141
 temperature and damage from, 1944, 142: 33
- ASTE-SALAZAR, H. and HURTADO, A. Affinity of hemoglobin for oxygen at high altitudes, 1944, 142: 733
- ASTRINGENTS
 permeability of frog skin, 1950, 162: 196
- ASTWOOD, E. B. Changes in weight and water content of uterus, 1939, 126: 162
- and FEVOLD, H. L. Progesterone and gonadotropic activity of pituitary, 1939, 127: 192
 — See TYSLOWITZ, R.
- ATAXIOMETER
 psychomotor efficiency on B vitamin restrictions, 1946, 147: 44
- ATCHLEY, D. W.: *see* FERREBEE, J. W.
 — See RAGAN, C.
- ATEN, A. H. W., JR. and HEYN, C. B. Secretion of radio-calcium in milk, 1950, 162: 579
- ATKINSON, A. J., IVY, A. C. and BASS, VIVIAN. Histamine and gastric response to histamine, 1941, 132: 51

- ATKINSON, A. J., IVY, A. C. and BASS, VIVIAN: *see* BERMAN, A. L.
- *See* SCHMIDT, C. R.
- ATKINSON, A. K.: *see* GESELL, R.
- ATP: *see* ADENOSINE TRIPHOSPHATE
- ATROPHY: *see* organ
- ATROPINE
- abnormal electrocardiogram produced by potassium deficiency, 1950, 162: 542
 - absorption of insulin from the alimentary tract, 1939, 128: 83
 - action potentials of squid eye, 1940, 130: 245
 - activity of adenosine-triphosphatase, 1948, 152: 90
 - anoxia and action of, 1951, 164: 567
 - antagonism to action of choline, 1944, 142: 66
 - atrophy of denervated skeletal muscle, 1943, 138: 251
 - blood flow in bronchial artery, 1947, 148: 661
 - central bladder response, 1939, 125: 306
 - central neurohumoral intermediation, 1943, 139: 371
 - contraction of denervated facial muscles, 1938, 121: 614
 - coronary blood flow, 1943, 138: 683
 - curare and, as antagonists of acetylcholine, 1943, 139: 520
 - cure of DFP convulsions, 1949, 156: 121
 - denervated muscle, 1943, 140: 248
 - denervated nictitating membrane, 1949, 156: 281
 - electrical potential of gastric mucosa, 1947, 149: 87
 - experimental hyperchromic anemia, 1944, 142: 405
 - fibrillation and atrophy of denervated muscle, 1942, 135: 749
 - food and water intake, 1949, 157: 149
 - gastric secretion and potential, 1947, 149: 163
 - heart, 1942, 136: 189; 1944, 142: 693
 - hyperthyroid heart, 1947, 148: 692
 - inhibition of brain cholinesterase, 1950, 160: 193
 - of brain oxidation, 1949, 157: 301
 - of intestinal motility, 1951, 165: 378
 - of pseudopregnancy, 1950, 161: 524
 - intestinal motility, 1944, 141: 463
 - intramuscular, and blood pressures, 1945, 143: 90
 - liver blood flow, 1941, 132: 713
 - nerve-free smooth muscle of chick amnion, 1940, 131: 530
 - prevention of inhibition by direct stimulation of heart, 1942, 135: 449
 - pulmonary changes due to intracranial pressure, 1949, 158: 96
 - renal blood flow, and clearance, 1939, 126: 362
 - resistance against, 1938, 123: 762
 - resistance to G forces, 1946, 146: 41
 - secretion of bile, 1939, 126: 133
 - secretory action of choline, 1938, 122: 127
 - serosa and mucosa of the intestine, 1947, 148: 720
 - survival following explosive decompression, 1950, 162: 455
 - sympathectomized cat, 1939, 126: 176
 - therapy in motion sickness, 1946, 146: 462
 - turtle ventricle, 1945, 145: 147
 - uterine response to stimulation, 1943, 139: 178
 - vasopressor action of acetylcholine, 1940, 130: 348
 - water balance, 1948, 155: 312
- ATTYAH, A. M.: *see* HAMILTON, W. F.
- ATWELL, R. J., HICKAM, J. B., PRYOR, W. W. and PAGE, E. B. Reduction of blood flow through hypoxic lung, 1951, 166: 37
- AUDIOGENIC STIMULI
- blood pressure, 1945, 143: 302
 - seizures due to, during Mg deficiency, 1947, 149: 135
- AUDITORY EXPERIMENTS
- arrangement of equipment, 1950, 162: 491
- AUDITORY NERVOUS PATHWAYS
- ablation and conditioned reflex studies, 1945, 144: 415
- AUDITORY STIMULATION
- adrenalectomy, and blood pressure, 1948, 155: 128
 - for conditioned reflexes, 1943, 139: 525
- AUER, J. and KRUEGER, H. Peristalsis and antiperistalsis, 1947, 148: 350
- AUMANN, K. W. and YOUMANS, W. B. Sensitization of autonomic neuro-effector systems, 1940, 131: 394
- *See* YOUMANS, W. B.
- AUREOMYCIN
- survival of eviscerated animals, 1951, 166: 349
- AURICLES: *see* HEART AURICLES
- AURICULAR FIBRILLATION: *see* HEART FIBRILLATION
- AUSTEN, D. C.: *see* CLEGHORN, R. A.
- AUTONOMIC NERVOUS SYSTEM
- activation of center and sympathetic response, 1946, 146: 377
 - activity; mobilization and excretion of calcium, 1940, 129: 769
 - adrenaline and reflex excitability, 1939, 127: 243
 - centers and anoxia, 1942, 135: 641
 - control of intestinal motility, 1944, 141: 462
 - retractor penis, 1938, 122: 745
 - serum calcium and potassium, 1940, 129: 760
 - decussation from hypothalamus to bladder, 1940, 130: 74
 - efferent pathway for carotid body vasomotor reflexes, 1945, 143: 220
 - for reflex pupillo-motor activity, 1940, 131: 144
 - emotional stimulation and heart rate, 1943, 138: 468
 - fifth stage of transmission in ganglia, 1939, 127: 347
 - sensitization by thyroxine, 1940, 131: 394
 - temperature, 1941, 133: 670
- AVERTIN
- asphyxial depolarization potential, 1950, 160: 453
 - fibrillation and atrophy of denervated muscle, 1942, 135: 749
 - respiration of heart muscle and, 1944, 142: 198
- AVERY, ANNABEL: *see* MUNRO, MURIEL P.
- AVIADO, D. M., JR., LI, T. H., KALOW, W., SCHMIDT, C. F., TURNBULL, G. L., PESKIN, G. W., HESS, MARILYN E. and WEISS, A. J. Reflexes from heart and lungs, 1951, 165: 261
- AVIATION
- application of cholinergic physiology, 1945, 144: 158
- AVOIDANCE CONDITIONING: *see* CONDITIONED REFLEXES
- AXELROD, A. E., LIPTON, M. A. and ELVENJEM, C. A.

- Production of uncomplicated riboflavin deficiency, 1940, 128: 703
- , LIPTON, M. A. and ELVEHJEM, C. A. Riboflavin deficiency in the dog, 1941, 133: 555
- AXELROD, HELEN E., GULLBERG, MARY G. and MORGAN, AGNES F. Carbohydrate metabolism and riboflavin, 1951, 165: 604
- See MORGAN, AGNES F.
- AXONS
- diameter and conduction velocity, 1939, 127: 393
- excitation, by adjacent axons, 1941, 133: 96
- interaction of, 1944, 140: 656
- local excitatory process in, 1938, 123: 455
- spike potential under polarization, 1949, 159: 217
- stimulation of adjacent fibers by increased excitability, 1941, 132: 119
- strychnine and potential, 1939, 125: 173
- AYER, J. L., SCHIESS, W. A. and PITTS, R. F. Glomerular filtration and phosphate reabsorption rates, 1947, 151: 168
- AZIDE
- blocking of epinephrine cardio-acceleration, 1950, 163: 492
- CO metabolism of muscle, 1940, 129: 207
- nerve conduction, O₂ consumption, 1950, 162: 458
- O₂ consumption, of active muscle, 1939, 126: 202
- of resting muscle, 1939, 126: 199
- PAH accumulation in kidney slices, 1950, 161: 189
- renal electrolyte metabolism, 1951, 167: 208
- renal electrolyte, water metabolism, 1951, 167: 207
- respiration of fish kidney, 1950, 161: 170
- AZOTEMIA: see NON-PROTEIN NITROGEN, of plasma
- B** *Coli* CULTURE
- insulin resistance produced by, 1942, 136: 598
- BABKIN, B. P. and KITE, W. C., JR. Central nervous system and blood pressure, 1950, 161: 92
- See SPEAKMAN, T. J.
- BABOON
- labyrinthectomy in, 1938, 121: 392
- prothrombin concentration in blood, 1941, 132: 242
- water distribution and sexual skin, 1940, 131: 325
- BABOON, GUINEA
- inulin and creatinine excretion, 1938, 122: 134
- BABOON, SACRED
- inulin and creatinine excretion, 1938, 122: 134
- BACCHUS, H. Adrenal cortex and stress, 1950, 163: 326
- Cardiac mass and potassium chloride, 1951, 166: 273
- BACH, L. M. N. Acetylcholine production in antidromic vasodilatation, 1946, 145: 478
- Reflex activation of vasodilators in dorsal roots, 1946, 145: 474
- BACHMANN, G., HALDI, J., ENSOR, C. R. and WYNN, W. Creatinuria after caffeine, 1942, 138: 78
- , et al. Urinary constituents after glucose and fructose, 1938, 124: 77
- See HALDI, J.
- BACHRACH, W. H.: see FOGELSON, S. J.
- BACIGALUTO, F. A., COUCH, J. R. and PEARSON, P. B. Vitamin synthesis and carbohydrates, 1950, 162: 131
- BADEER, H. Temperature on S-A rate, 1951, 167: 76
- BAER, H.: see FOX, C. L., JR.
- BAEZ, S., MAZUR, A. and SHORR, E. Antidiuretic action of ferritin, 1950, 162: 198
- , ZWEIFACH, B. W., PELLON, R. and SHORR, E. Renal factor in shock, 1951, 166: 658
- BAHNSON, H. T. Role of kidneys in resistance to hemorrhage, 1943, 140: 416
- BAIER, H. N.: see RING, G. C.
- BAIN, J. A. Inhibition of rat brain cholinesterase, 1950, 160: 187
- and KLEIN, J. R. Carbon dioxide and brain metabolites, 1949, 158: 478
- See POLLOCK, G. H.
- BAINBRIDGE REFLEX
- localization of receptor area, 1941, 135: 202
- BAJANDAS, F. J.: see REHM, W. S.
- BAKER, A. B.: see KABAT, H.
- BAKER, B. L. and LEEK, J. H. Parathyroid glands and action of estrogen, 1946, 147: 522
- and WHITAKER, W. L. Adrenal cortex and estrogen, 1949, 159: 118
- BAKER, C. F.: see WERTHESEN, N. T.
- BAKER, ZELMA: see HEMWICH, H. E.
- BALABAN, MIRIAM: see RING, G. C.
- BALDES, E. J.: see ESSEX, H. E.
- See GRINDLAY, J. H.
- See HAUSNER, E.
- See HERRICK, J. F.
- BALDWIN, D., KAHANA, EDA M. and CLARKE, R. W. Excretion of sodium and potassium, 1950, 162: 655
- BALDWIN, ELEANOR DEF.: see RICHARDS, D. W., JR.
- BALDWIN, H. R.: see BERRYMAN, G. H.
- BALDWIN, J.: see COURNAND, A.
- BALE, W. F.: see ARIEL, I.
- See CRUZ, W. O.
- See HAHN, P. F.
- See MANERY, JEANNE F.
- See POMMERENKE, W. T.
- BALES, P. D.: see FREEDMAN, A. M.
- BALFOUR, W. M.: see HAHN, P. F.
- See POMMERENKE, W. T.
- BALISTOCKY, M.: see MOREAU, L.
- BALL, G. H. pH of digestive tract in the rat, 1939, 128: 175
- BALL, JOSEPHINE. Frequency of insemination and implantation of ova, 1940, 130: 471
- BALL, S. M.: see WOLF, A. V.
- BALL, ZELDA B., BARNES, R. H. and VISSCHER, M. B. Caloric restriction, fertility and longevity, 1947, 150: 511
- BALLANTYNE, R. M.: see MACFARLAND, M. L.
- BALLIN, H. M.: see GELLHORN, E.
- BALLIN, I. R. and KATZ, L. N. Localization of receptor area of Bainbridge reflex, 1941, 135: 202
- BALLISTOCARDIOGRAM
- cardiac ejection curve, 1945, 144: 557
- experimental mitral insufficiency, 1951, 165: 497
- man, 1939, 127: 1

BALLISTOCARDIOGRAM

- oxygen tension, 1947, 149: 277
 records in dog, 1939, 127: 22
 vertical, and circulation on arising, 1941, 134: 403
- BANCROFT, R. W. Polycythemia and anoxia, 1949, 156: 158
- and DRURY, D. R. Glucose equivalent of fed protein, 1951, 166: 213
- See DRURY, D. R.
- See PAULS, FRANCES
- BANDES, J., HOLLANDER, F. and GLICKSTEIN, J. Effect of fluid absorption on gastric analyses, 1940, 131: 470
- BANFIELD, W. G., JR.: see GOODALE, W. T.
- BANKS, E. M.: see FULLER, J. L.
- BANTHINE
 block of LH release, 1951, 166: 223
- BANUS, M. G., CORMAN, H. H., PERLO, V. P. and POPKIN, G. L. Sensitivity of respiratory center to hydrogen ions, 1944, 142: 121
- BARACH INDEX
 glycine ingestion, 1941, 132: 579
- BARACH, A. L., ECKMAN, M., OPPENHEIMER, ENID T., RUMSEY, C., JR. and SOROKA, M. Oxygen poisoning, 1944, 142: 462
- BARBITONE: see SODIUM BARBITAL
- BARBORKA, C. L.: see FOLTZ, E. E.
- BARBOUR, H. G., MCKAY, ELIZABETH A. and GRIFFITH, W. P. Water shifts in deep hypothermia, 1943, 140: 9
- See HEMINGWAY, A.
- BARHAM, I. S.: see SHAFIROFF, B. G. P.
- BARCLAY, J. A., COOKE, W. T. and KENNEY, R. A. Adrenaline effects on renal function, 1947, 151: 621
- , COOKE, W. T., KENNEY, R. A. and NUTT, M. E. Urine composition in diuresis and exercise, 1947, 148: 327
- BARCROFT, J.: see LORBER, V.
- See WINDLE, W. F.
- BARD, P.: see ROOT, W. S.
- BARLARE, B., JR. and RICHTER, C. P. Increased sodium chloride appetite in pregnancy, 1938, 121: 185
- See RICHTER, C. P.
- BARGETON, D. Acute anemia and function of sympathetic ganglion, 1938, 121: 261
- BARIUM
 absorption from obstructed gall bladder, 1940, 129: 706
- BARIUM CHLORIDE: see CHLORIDES
- BARKER, DOROTHY E.: see VISSCHER, M. B.
- BARKER, H. G.: see BRUNER, H. D.
- BARKER, S. B.: see PHILLIPS, R. A.
- BARLOW, G., JR.: see SWINGLE, W. W.
- BARLOW, H. B., KOHN, H. I. and WALSH, E. G. Electric threshold of human eye, 1947, 148: 376
- , KOHN, H. I. and WALSH, E. G. Visual sensations aroused by magnetic fields, 1947, 148: 372
- BARLOW, O. W. and KOCHER, H. Economy of peroral and intramuscular vitamin A., 1942, 137: 213

See page iii for guide to use of index

- BARMAN, J. M., CONSOLAZIO, F. C. and MOREIRA, M. F. Pulmonary ventilation and O₂ use after exercise, 1942, 138: 16
- , MOREIRA, M. F. and CONSOLAZIO, F. C. Metabolic effects of local ischemia in exercise, 1942, 138: 20
- BARNES, L. L. See BOGART, R.
- BARNES, R. H., DRURY, D. R., GREELEY, P. O. and WICK, A. N. Utilization of ketone bodies in animals with ketosis, 1940, 130: 144
- , MACKAY, E. M., MOE, G. K. and VISSCHER, M. B. β -hydroxybutyric acid utilization by heart and lungs, 1938, 123: 272
- See BALL, ZELDA B.
- See BOSSHARDT, D. K.
- See MACKAY, E. M.
- See RISLEY, E. A.
- BARNES, T. C. Acetylcholine and electrical potential of frog skin, 1940, 130: 557
- Effect of heavy water and adrenaline on turtle heart, 1940, 129: 664
- BARNUM, C. P. and ARMSTRONG, W. D. Exchange of phosphorus by tooth enamel and dentin, 1942, 135: 478
- BAROMETRIC PRESSURE
 blood pH, 1940, 130: 9
 high, N₂ and O₂ transport, 1941, 131: 633
 oxygen-hemoglobin dissociation curve, 1944, 142: 737
 low, see ALTITUDE, HIGH
 ranges at which decompression is most dangerous, 1946, 147: 19
- BARONOFKY, I. D.: see QUICK, A. J.
- BARRETT, EVALYN: see SUGARMAN, J.
- BARRETT, M. J.: see THOMPSON, D. D.
- BARNETT, R. J. and GREEP, R. O. Regulation of ACTH and TSH, 1951, 167: 569
- BARRON, E. S. G.: see HOOK, W. E.
- BARROW, J., TULLIS, J. L. and CHAMBERS, F. W., JR. Radiation and reticulo-endothelial system, 1951, 164: 822
- BARROWS, E. F. and DODDS, H. Body temperature of mice during anesthesia, 1942, 137: 259
- BARTLETT, G. R. Methanol combustion, 1950, 163: 614
- Methanol-ethanol competition, 1950, 163: 619
- BARTLETT, MARY N.: see HUMM, JANE H.
- See KOCHAKIAN, C. D.
- BARTLETT, P. D.: see GAEBLER, O. H.
- BARTLEY, S. H. and HEINBECKER, P. Electrical activity of sensorimotor cortex, 1938, 121: 21
- and HEINBECKER, P. Insulin and nerve activity, 1940, 131: 509
- See HEINBECKER, P.
- BARTOLI, A., FELDMAN, J. and REED, C. I. Pituitary and calorogenic action of vitamin D, 1939, 127: 552
- BASAL METABOLIC RATE
 acclimatization, 1943, 140: 171
 adrenal cortical hormone, 1938, 121: 543; 1938, 121: 549
 adrenaline, 1943, 138: 671
 age, 1938, 121: 502

- anterior pituitary hormone, 1938, 121: 559
 body build, 1940, 129: 4
 carbohydrate consumption, 1941, 133: 688
 cervical sympathetic stimulation, 1939, 125: 155
 chronic inanition, 1948, 154: 188
 cold, 1939, 125: 244; 1941, 134: 634
 adrenalectomy, 1938, 122: 435
 controlled feeding, 1942, 137: 114
 environmental conditions, 1940, 129: 97
 erythrocyte number in pigeons, 1938, 122: 483
 hypophysectomy, 1938, 122: 373; 1938, 122: 535
 massive vitamin intake with reduced caloric intake, 1947, 150: 553
 menarche, 1943, 139: 290
 of albino rats, 1944, 142: 692
 of college women, 1943, 140: 35
 of dogs, 1938, 124: 518; 1940, 129: 626; 1941, 134: 600
 under tropical conditions, 1947, 148: 478
 of fasting pigeons in extreme cold, 1950, 161: 302
 of mouse during various times of day, 1946, 147: 284
 posture, 1938, 122: 563
 reduction time of oxyhemoglobin, 1946, 147: 632
 repeated determination on children, 1944, 140: 463
 thiouracil, 1947, 151: 130
 thyroid, radiation, 1951, 165: 651
 thyroidectomy, 1940, 131: 317
 thiouracil, 1946, 146: 440
 thyroxine, 1947, 149: 402
 variability in normal individuals, 1938, 121: 669
 variability in women, 1943, 139: 280
 visible radiations, 1942, 137: 765
 vitamin A ingestion, 1947, 149: 402
- BASE**
 fixed, of serum, exercise, 1938, 121: 293
 total, of plasma, epinephrine, 1938, 121: 327
- BASS, ANNE C.:** *see* DAVIS, A. K.
 — *See* OVERMAN, R. R.
 — *See* STERN, T. N.
- BASS, VIVIAN:** *see* ATKINSON, A. J.
- BASSETT, D. L.** Toxicity of Na phenylacetate and Na mandelate, 1945, 143: 272
- BAT**
 blood sugar and body temperature changes from emotional excitation, 1939, 125: 731
 resistance to anoxia, 1945, 145: 191
- BATEMAN, W. H.:** *see* HAMILTON, W. F.
- BATES, P. L.:** *see* BLAIR, H. A.
- BATES, R. W., RIDDLE, O. and LAHR, E. L.** Racial factor in pigeon crop-sac bioassay, 1939, 125: 722
 —, RIDDLE, O. and LAHR, E. L. Response of pigeon crop-sac to prolactin, 1939, 127: 422
 — *See* RIDDLE, O.
- BATSON, H. M.:** *see* GUYTON, A. C.
- BATTISTA, A. F.:** *see* CHATFIELD, P. O.
- BAUER, W.:** *see* ZELLER, J. W.
- BAUMANN, C. A.** *see* FIELD, J. B.
- BAUMANN, E. J. and SPRINSON, D. B.** Hyperparathyroidism produced by diet, 1939, 125: 741
 — *See* MARINE, D.
- BAVETTA, L. A.** Adrenalectomy and absorption of fatty acids, 1943, 140: 44
 — and DEUEL, H. J., JR. Adrenalectomy and fat absorption, 1942, 136: 712
 —, HALLMAN, LOIS, DEUEL, H. J., JR. and GREELEY, P. O. Adrenalectomy and fat absorption, 1941, 134: 619
- BAY, E. B.:** *see* NEWMAN, M. M.
- BAZETT, H. C.** Factors concerned in control of capillary pressure, 1947, 149: 389
 —, SUNDERMAN, F. W., DOUPE, J. and SCOTT, J. C. Climate and blood volume, 1940, 129: 69
 — *See* BURTON, A. C.
 — *See* MAXFIELD, M. E.
 — *See* SCOTT, J. C.
- BAZETT'S K:** *see* HEART, ELECTROPHYSIOLOGY
- BBB:** *see* BENZYL BIS(β -CHLOROETHYL)AMINE
- BEACH, DORIS A.:** *see* COOK, D. L.
 — *See* WINBURY, M. M.
- BEACH, E. F., BRADSHAW, PHOEBE J., and BLATHERWICK, N. R.** Alloxan diabetes, 1951, 166: 364
- BEALL, BETTY:** *see* KOCHAKIAN, C. D.
- BEAMER, C. and EADIE, G. S.** Epinephrine and insulin in diphtheria intoxication, 1938, 122: 627
- BEAMER, W. D., FRIEDMAN, M. H. F., THOMAS, J. E. and REHFUSS, M. E.** Intestinal phase of gastric secretion, 1944, 141: 613
- BEAN, J. W.** Compression, decompression and alveolar gas, 1950, 161: 417
 — Specificity of renin-hypertensinogen reaction 1942, 136: 731
 — and BOHR, D. F. Adrenaline and acetylcholine in pupillary regulation, 1941, 133: 106
 — and BOHR, D. F. High oxygen effects on isolated striated muscle, 1938, 124: 576
 — and BOHR, D. F. Response of smooth muscle to oxygen at high pressure, 1940, 130: 445; 1944, 142: 379
 — and ELWELL, L. H. d-Tubocurarine and muscle circulation, 1951, 164: 734
 — and ELWELL, L. H. d-Tubocurarine and muscle response, 1951, 165: 716
 — and SIEGFRIED, E. C. After-effects of oxygen at high pressure, 1945, 143: 656
 —, MAYO, W. P., O'DONNELL, F. and GRAY, G. W. Pulmonary CO₂ and vascular response, 1951, 166: 723
 —, WAPNER, S. and SIEGFRIED, E. C. After effects of high oxygen pressure on C. N. S., 1945, 143: 206
 — *See* BOHR, D. F.
 — *See* MOHAMED, M. S.
- BEAR**
 vitamin A reserves of, 1938, 123: 695
- BEARD, H. H.** Liver and creatine-creatinine metabolism, 1938, 124: 530
 —, ESPENAN, JULIA K. and PIZZOLATO, P. Effect of glycine on creatine-creatinine excretion, 1939, 127: 716
- BEATON, L. E. and MAGOUN, H. W.** Medullary respiratory centers in monkey, 1941, 134: 177
 — *See* MAGOUN, H. W.

- BEATTY, CLARISSA H. Glucose metabolism after hemorrhage, 1948, 154: 107
 — Hemorrhage and blood glucose and lactate, 1945, 143: 579
 — Liver control of blood glucose after hemorrhage, 1945, 144: 233
 — See NASTUK, W. L.
- BEAVER
 blood flow through brain during arrest of breathing, 1938, 122: 207
 insensitivity to CO₂, 1938, 124: 729
- BEAZELL, J. M. Gastric digestion of carbohydrate and protein, 1941, 132: 42
 — See SCHMIDT, C. R.
- BECK, L. V., KEMPTON, R. T. and RICHARDS, A. N. Glomerular function under cyanide and oxygen lack, 1938, 122: 676
- BECKER, R. F. and WINDLE, W. F. Fetal gastrointestinal motility, 1941, 132: 297
- BECKETT, SIBYL and GELLHORN, E. Acetylcholine and cortex activity, 1948, 153: 113
- BECKMAN, E. L.: see RUSHMER, R. F.
- BECKWITH, J. R. Time factor in production of renal pressor substance, 1941, 132: 1
 — and CHANUTIN, A. Pressor effect of kidney extracts, 1940, 128: 562
- BEECHER, H. K., WARRÈN, MADELEINE F. and MURPHY ANNA. Cyclopropane and ether anesthesia, 1948, 154: 475
 — See MOYER, C. A.
 — See WILLIAMS, C. M.
- BEEF HEART
 digestion of, in dog, 1941, 135: 12
- BEEF JUICE
 stomach, 1943, 138: 314
- BEEF LIVER
 hemoglobin factors, 1939, 126: 145
- BEER'S LAW
 lack of application to determination of oxygen saturation of whole blood, 1951, 165: 229
- BEHNKE, A. R. and WILLMON, T. L. Cutaneous diffusion of helium and blood flow, 1941, 131: 627
 — and WILLMON, T. L. Gaseous nitrogen and helium elimination from body, 1941, 131: 619
 — and YARBROUGH, O. D. Use of inert gases in deep sea diving, 1939, 126: 409
 — See CONSOLAZIO, W. V.
 — See PACE, N.
 — See WILLMON, T. L.
- BEHRMANN, VIVIAN G., SCHELLING, V. and HARTMAN, F. W. Blood histamine levels in experimental burns, 1946, 145: 483
 — See BRASSFIELD, C. R.
 — See FAX, MARION
- BELCHER, D. see SHEDLOVSKY, L.
- BELDING, H. S., RUSSELL, H. D., DARLING, R. C. and FOLK, G. E. Clothing and energy balance in extreme cold, 1947, 149: 223
 —, RUSSELL, H. D., DARLING, R. C. and FOLK, G. E. Thermal responses and sweating in extreme cold, 1947, 149: 204
 — See ROBINSON, S.
- BELL, H. J.: see HAIST, R. E.
- BELL, R., JR. and NORTHUP, D. W. Acclimatization to histotoxic anoxia, 1950, 163: 125
- BELL, R. M.: see NIESER, R. T.
- BELL, SARA L.: see BERRYMAN, G. H.
- BELLA, S. T.: see ROOF, BETTY S.
- BELLOWS, J.: see ROSNER, L.
- BELLOWS, R. T. Time factors in water drinking, 1939, 125: 87
 — and VAN WAGENEN, W. P. Nerve resection and water-drinking, 1939, 126: 13
- BEN-OVOCYLIN: see ESTRADIOL
- BENADRYL
 nerve fiber, 1951, 164: 509
 nerve sheath as barrier to penetration of, 1951, 166: 239
 production of vascular refractoriness with, 1949, 156: 405
- BENAGLIA, A. E.: see BODO, R. C.
- BENBOW, J. T. see INGRAM, W. R.
- BENDER, M. B. Fright and drug contractions of denervated muscles, 1938, 121: 609
 — Kinetics of cholinesterase in blood and spinal fluid, 1939, 126: 180
 — and SIEGAL, S. Hypoglycemia and autonomic humoral substances, 1940, 128: 324
 — and WEINSTEIN, E. A. Adrenaline release by stimulation of hypothalamus, 1942, 136: 376
 — and WEINSTEIN, E. A. Reactions of denervated iris, 1940, 130: 268
 — See DAVIDS, A. M.
 — See WEINSTEIN, E. A.
- BENDS: see DECOMPRESSION, injury
- BENEDEK, AGNES L.: see ROSENTHAL, R. L.
- BENEMID
 excretion of phenol red, 1951, 166: 630
 renal affinity and elimination, 1951, 166: 625
 renal electrolyte metabolism, 1951, 167: 208
 renal electrolyte and water metabolism and, 1951, 167: 207
- BENJAMIN, J. W. see INNERFIELD, I.
- BENNETT, L. L. Metabolic effects of pituitary, 1948, 155: 24
 — and LAUNDRIE, BARBARA. Metabolic effects of pituitary, 1948, 155: 18
 — and LI, C. H. Hormones, urinary glucose and N in diabetes, 1947, 150: 400
 — and ROBERTS, LOIS M. Locus of hypersensitivity to insulin, 1946, 146: 502
 —, KREISS, RUTH E., LI, C. H. and EVANS, H. M. Ketosis and anterior pituitary, 1948, 152: 210
- BENNETT, W. C.: see LITTLE, J. M.
- BENSON, W. M. and MEEK, W. J. Hydrolysis of choline esters, 1949, 158: 327
- BENZALDEHYDE
 interfacial tension between, and water, 1946, 145: 612
 muscle sensitivity to acetylcholine and potassium, 1946, 145: 610
- BENZENE TOXICITY
 protein deficient diet, 1945, 145: 166; 1947, 148: 360
 protein and fat of diet and, 1945, 145: 159

- BENZESTROL**
x-ray injury, 1949, 159: 277
- BENZIDINE**
muscle sensitivity to acetylcholine and potassium, 1946, 145: 610
- BENZIDRINE:** *see* AMPHETAMINE
- BENZOIC ACID**
adrenaline oxidation by tyrosinase, 1942, 136: 67
blood coagulation 1940, 130: 576
hair growth, 1940, 129: 554
muscle sensitivity to acetylcholine and potassium, 1946, 145: 610
- BENZOL**
interfacial tension between, and water, 1946, 145: 612
muscle sensitivity to acetylcholine and potassium, 1946, 145: 610
- BENZOYLCHOLINE**
adrenaline and hydrolysis, 1949, 158: 330
permeability of erythrocytes, 1951, 164: 424
- BENZYL ALCOHOL**
interfacial tension between, and water, 1946, 145: 612
muscle sensitivity to acetylcholine and potassium, 1946, 145: 610
- BENZYL BIS(β -CHLOROETHYL)AMINE**
convulsant activity, 1950, 160: 197
inhibition of brain cholinesterase, 1950, 160: 192
relation of carotid occlusion and arterial pressure, 1950, 162: 556
- N-BENZYL-N-ETHYL- β -CHLOROETHYLAMINE**
blocking of epinephrine cardioacceleration, 1950, 163: 485
- BERALDO, W. T.** Bradykinin in anaphylactic and peptone shock, 1950, 163: 283
— *See* ROCHA E SILVA, M.
- BEREZ, R. R.:** *see* CRISMON, J. M.
- BERG, M., MAYNE, A. and PETERSEN, W. F.** Variability of blood pH and meteorological factors, 1940, 130: 9
- BERG, O. C., HUGGINS, C. and HODGES, C. V.** Ascorbic acid and phosphatases of male genital tract, 1941, 133: 82
- BERG, W. E.** Recovery from exercise, 1948, 152: 465
— Respiratory gas exchange after moderate exercise, 1947, 149: 597
— and COOK, S. F. Carbon dioxide production at low barometric pressures, 1946, 147: 217
- BERGEN, J. R.** Electrocardiogram and adrenal function, 1951, 164: 16
— and HOAGLAND, H. Brain and muscle potassium in rats, 1951, 164: 23
- BERGER, E. Y., DUNNING, MARCELLE F., STEELE, J. M., JACKENTHAL, ROSLYN and BRODIE, B. B.** Intracellular water in man, 1950, 162: 318
— *See* STEELE, J. M.
- BERGERON, G. A.:** *see* GREEN, H. D.
— *See* OPDYKE, D. F.
- BERGH, G. S. and LAYNE, J. A.** Contraction of common bile duct sphincter, 1940, 128: 690
- BERGHOUT, J.:** *see* NICKERSON, M.
- BERGMAN, H. C. and DRURY, D. R.** Kidney function and glucose utilization, 1938, 124: 279
—, KRUGER, H. E. and PRINZMETAL, M. Muscular activity and bleeding volume in shock, 1946; 146: 366
— *See* MACKAY, E. M.
— *See* PRINZMETAL, M.
- BERK, J. E., THOMAS, J. E. and REHFUSS, M. E.** Fat ingestion and duodenal acidity, 1942, 136: 285
—, THOMAS, J. E. and REHFUSS, M. E. Reaction and neutralizing ability of duodenum, 1942, 136: 369
—, THOMAS, J. E. and REHFUSS, M. E. Reactions of pyloric and duodenal contents, 1942, 136: 157
- BERKMAN, J.:** *see* SHERRY, S.
- BERKSON, J. and BOOTHBY, W. M.** Variability of basal metabolism, 1938, 121: 669
—, MAGATH, T. B. and HURN, MARGARET. Error of blood cell count made with hemocytometer, 1940, 128: 309
— *See* FLOCK, EUNICE V.
- BERLIN, N. I. and SIRI, W.** Cobalt absorption and elimination, 1951, 164: 221
—, MEYER, L. M. and LAZARUS, M. Life span of red blood cell with glycine 2-C¹⁴, 1951, 165: 565
- BERLINER, R. W., KENNEDY, T. J., JR. and HILTON, J. G.** Renal clearance of ferrocyanide, 1950, 160: 325
—, KENNEDY, T. J., JR. and HILTON, J. G. Renal mechanisms and potassium, 1950, 162: 348
—, KENNEDY, T. J., JR. and HILTON, J. G. Renal tubular secretion of PAH, 1948, 154: 537
— *See* EARLE, D. P., JR.
- BERMAN, A. L., SNAPP, E. and IVY, A. C.** Choleresis and rate of excretion of bilirubin, 1941, 132: 176
—, SNAPP, E., IVY, A. C. and ATKINSON, A. J. Cholic acid output in biliary-duodenal dogs, 1941, 131: 776
—, SNAPP, E., IVY, A. C., HOUGH, V. H. and ATKINSON, A. J. Hog bile as cholagogue for dogs, 1941, 131: 752
— *See* SCHMIDT, C. R.
- BERN, H. A.** Urinary and genital phosphatases, 1949, 156: 396
- BERNE, R. M.:** *see* LEVY, M. N.
- BERNHEIM, F. and BERNHEIM, MARY L. C.** Caffeine and ammonia and urea excretion, 1945, 145: 115
— and BERNHEIM, MARY L. C. Choline oxidase of liver, 1938, 121: 55
— and BERNHEIM, MARY L. C. Methyl xanthines and urea formation, 1946, 147: 428
— and BERNHEIM, MARY L. C. Respiration of rat heart muscle in vitro, 1944, 142: 195
— *See* HANDLER, P.
- BERNHEIM, MARY L. C.:** *see* BERNHEIM, F.
- BERNSTEIN, A. O. and GREGERSEN, M. I.** Diffusion of sugars in cerebrospinal fluid, 1938, 123: 747
— *See* HIMWICH, H. E.
- BERNSTEIN, R.:** *see* HOLT, J. P.
- BERNTHAL, T.** Chemo-reflex control of vascular reactions, 1938, 121: 1

- BERNTHAL, T. and SCHWIND, F. J. Chemoreflex vascular reactions in leg and intestine, 1945, 143: 361
- and WEEKS, W. F. Variations in carotid body temperature, 1939, 127: 94
- and WOODCOCK, C. C., JR. Hypoxia on deafferented vasomotor center, 1951, 166: 45
- , MOTLEY, H. E., SCHWIND, F. J. and WEEKS, W. F. Efferent pathway of chemoreflex vasomotor reactions, 1945, 143: 220
- See WINDER, C. V.
- BERRY, C. M., MCKINLEY, W. A. and HODES, R. Reversals of vasomotor reactions, 1942, 135: 338
- See DEY, F. L.
- See HARRISON, F.
- BERRY, I. M. and IVY, A. C. Non-absorption of emulsified mineral oil, 1950, 162: 80
- BERRY, M. M.: see VAN MIDDLESWORTN, L.
- BERRYMAN, G. H. and BOLLMAN, J. L. Blood plasma proteins and hepatitis, 1943, 139: 592
- and BOLLMAN, J. L. Blood plasma proteins in pregnancy with hepatitis, 1943, 139: 596
- and HENDERSON, C. R. Biochemical appraisal of nutritional status, 1947, 149: 142
- , BOLLMAN, J. L. and MANN, F. C. Liver and proteins of blood plasma, 1943, 139: 556
- , FRENCH, C. E., BALDWIN, H. R., BELL, SARA L. and HENDERSON, C. R. Load tests and fasting excretions of vitamins, 1947, 149: 254
- , HENDERSON, C. R., FRENCH, C. E., GOORLEY, J. T., HARPER, H. A., POLLACK, H. and HARKNESS, D. M. Biochemical appraisal of group nutritional status, 1946, 145: 625
- , HENDERSON, C. R., WHEELER, N. C., COGSWELL, R. C., JR., SPINELLA, JANE R., GRUNDY, W. E., JOHNSON, H. C., WOOD, MARTA E. and DENKO, C. W. Effects of restricted and supplemented diets, 1947, 148: 618
- See COGSWELL, R. C., JR.
- See HOWE, P. E.
- BERYLLIUM**
- metabolism of calcium and phosphorus, 1938, 124: 234
- renal electrolyte metabolism, 1951, 167: 209
- BEST, C. H. and RIDOUT, JESSIE H. Pancreas and deposition of liver fat, 1938, 122: 67
- See WRENSHALL, G. A.
- See YOUNG, F. G.
- BEVAN, W., JR., LEWIS, G. T., BLOOM, W. L. and ABESS, A. T. Amino acid deficiencies, 1950, 163: 104
- BEVIN, S.: see FRIEDGOOD, H. B.
- BEYER, K. H. and SHAPIRO, S. H. Excretion of conjugated epinephrine related compound, 1945, 144: 321
- , MILLER, A. KATHERINE, RUSSO, H. F., PATCH, ELIZABETH A. and VERWEY, W. F. Caronamide inhibition of penicillin excretion, 1947, 149: 355
- , PAINTER, R. H. and WIEBELHAUS, V. D. Enzymatic factors in tubular secretion, 1950, 161: 259
- , RUSSO, H. F., GASS, S. R., WILHOYTE, KATHERINE M. and PITT, ALICE A. N¹-methylnicotinamide excretion, 1950, 160: 311
- , RUSSO, H. F., TILLSON, ELIZABETH K., GASS, S. R. and SCHUCHARDT, GRACE S. Clearance and binding of carinamide, 1949, 159: 181
- , RUSSO, H. F., TILLSON, ELIZABETH K. MILLER, A. KATHERINE, VERWEY, W. F. and GASS, S. R. Renal affinity and elimination of 'benemid', 1951, 166: 625
- , WRIGHT, L. D., RUSSO, H. F., SKEGGS, HELEN R. and PATCH, ELIZABETH A. Renal clearance of essential amino acids, 1946, 146: 330
- , WRIGHT, L. D., SKEGGS, HELEN R., RUSSO, H. F. and SHANER, GRACE A. Renal clearance of amino acids, 1947, 151: 202
- See WRIGHT, L. D.
- BIANCHI, R. G.: see COOK, D. L.
- BIBBY, B. G.: see VOLKER, J. F.
- BICARBONATE**
- anaerobic glycolysis in liver slices, 1946, 147: 509
- change in blood after exercise, 1938, 122: 106; 1940, 128: 420
- Na, carotid body, 1938, 121: 10
- citrate lithiasis, 1951, 167: 698
- gastric secretion, 1943, 139: 356
- intake in normal and hypertensive animals, 1951, 164: 369
- muscle contraction, 1945, 145: 7
- outcome of hemorrhagic shock, 1945, 144: 506
- protein constituents of pancreatic juice, 1945, 145: 144
- replacement of perilymph with, 1939, 125: 694
- treatment for hemorrhagic shock, 1946, 146: 433
- of plasma in asphyxia and resuscitation, 1946, 147: 435
- in shock, 1947, 149: 53
- of tissues at low atmospheric pressure, 1944, 142: 63
- renal regulation of acid base balance, 1946, 147: 138; 1947, 148: 54
- BIDDER, T. G.: see GREGG, D. E.
- BIDDULPH, C. and MEYER, R. K. Vitamin E-deficiency and endocrine glands, 1941, 132: 259
- See MEYER, R. K.
- See SHIPLEY, ELVA G.
- BIERMAN, J. R.: see SHAFIROFF, B. G. P.
- BIGELOW, R. R.: see WOODWARD, E. R.
- BIGELOW, W. G., LINDSAY, W. K., HARRISON, R. C., GORDON, R. A. and GREENWOOD, W. F. Oxygen transport and utilization, 1950, 160: 125
- BILE**
- absorption of carotene, 1941, 132: 206
- age of chronic biliary fistula, 1945, 145: 187
- bilirubin and bromsulfalein excretion in, 1948, 154: 211
- BSP excretion in, 1950, 162: 569
- characteristics and excretion of, in rat, 1950, 162: 575

- cholic acid output in biliary-duodenal dogs, 1941, 131: 776
- cobalt excretion, 1945, 145: 288
- excretion in liver damage, 1951, 165: 680
- factors influencing flow, 1950, 163: 688
- fecal fat and nitrogen excretion, 1948, 153: 143
- flow in hogs, 1946, 146: 297
- foods and volume, 1938, 122: 325
- gastrointestinal motility, 1941, 134: 32
- hepatic, cholesterol content as compared to gall-bladder bile, 1940, 129: 275
- hog, as cholagogue, 1941, 131: 752
- hyperpyrexia and flow, 1941, 132: 32
- intestinal juice, 1940, 131: 256
- iron absorption in absence, 1942, 135: 259
- liver blood flow, 1938, 121: 61
- pancreatic secretion, 1943, 138: 548
- phosphatase excretion, 1948, 153: 444
- presence in stomach, 1944, 141: 614
- propulsive motility of intestines, 1939, 126: 85
- quantitative method of recording volume, 1938, 122: 325
- radioactive iodine, 1941, 132: 348
- rate of excretion, choleric agents, 1948, 154: 506
- resorption, in obstructive jaundice, 1942, 137: 99
- intrahepatic pressure, 1944, 141: 481
- secretion, 1939, 126: 120
- controlled by vagus nerve, 1938, 121: 270
- inhibition, 1943, 138: 462
- T-1824 excretion, 1947, 151: 229
- volume and composition in choline deficiency, 1951, 164: 274
- BILE ACIDS**
- excretion, 1951, 164: 786
- hepatic blood flow, 1941, 132: 378
- of blood, after liver injury, 1938, 124: 94
- of normal and icteric rats, 1951, 164: 786
- of urine, after liver injury, 1938, 124: 94
- BILE DUCT**
- canulation in guinea pig, 1942, 135: 347
- ligation, fat appetite, 1942, 138: 71
- obstruction, liver regeneration, 1949, 159: 343
- serum phosphatase, 1951, 164: 792
- sphincter, contraction of, 1940, 128: 690
- BILE PIGMENTS**
- bilirubin, excretion of, cholelithiasis, 1941, 132: 176
- choleric agents, 1948, 154: 508
- fat content of diet, 1943, 138: 230
- in bile, 1948, 154: 211; 1950, 162: 577
- soap injection, 1944, 140: 558
- level, in hepatic bile, chronic fistula, 1945, 145: 187
- level in serum after cholesterol feeding, 1947, 149: 4
- levels in serum of newborn, 1948, 152: 205
- of blood, evisceration, 1950, 160: 250
- excretion after liver damage, 1951, 165: 680
- factors affecting secretion of, in bile, 1939, 126: 120
- interrelation with hemoglobin in anemia, 1939, 126: 329
- BILE SALTS**
- absorption of carotene, 1941, 132: 206
- cardiovascular action, 1942, 137: 599
- chloride and water absorption, 1942, 136: 341
- deposition of food fat in liver, 1946, 145: 669
- factors influencing secretion, 1939, 126: 120
- inhibition of phosphatase, 1942, 135: 490
- of hepatic bile, chronic fistula, 1945, 145: 187
- BILIARY FISTULA**
- properties of dog hepatic bile, 1945, 145: 187
- BILIRUBIN:** *see* BILE PIGMENTS, bilirubin
- BINDER, M. J.:** *see* AGRESS, C. M.
- BING, R. J.** Hydroxytyramine from extracts of renal cortex, 1941, 132: 497
- Vasoconstrictor substances in shed blood, 1941, 133: 21
- Vitamin A and renal function, 1943, 140: 240
- *See* DALEY, R.
- *See* ECKENHOFF, J. E.
- *See* GRAY, F. D., JR.
- *See* HOUCK, C. R.
- *See* SPENCER, F. C.
- BINNS, DOROTHY:** *see* AMBERSON, W. R.
- BIOASSAY**
- of hormones, body size of chicks, 1940, 129: 286
- of steroid hormones, comparison of sesame oil and sodium lauryl sulfate, 1947, 150: 447
- pigeon crop-sac method, racial factor, 1939, 125: 724
- BIOTIN**
- carbohydrate in diet and excretion of, 1950, 162: 131
- deficiency, progressive paralysis in, 1945, 144: 175
- sexual differences, 1950, 161: 1
- in body fluids during dietary restrictions in man, 1946, 147: 47
- in urine, blood, and feces, on various diets, 1947, 148: 624
- need in dogs for hemoglobin formation, 1945, 145: 25
- urinary excretion of, on normal and restricted diets, 1947, 149: 145
- 2-(2-BIPHENYLOXY)-2'-CHLORO-TRIETHYLAMINE HCL**
- inhibition of hyperglycemia, 1951, 165: 68
- N (2-(2-BIPHENYLOXY)ETHYL)-N'-(2-CHLOROETHYL) BUTYLAMINE**
- inhibitory effect on brain cholinesterase, 1950, 160: 192
- BIRCHALL, E. F., FENTON, P. F. and PIERCE, H. B.**
- Alimentary disposition of ingested dextrose, 1946, 146: 610
- BIRDS**
- muscle tremor and temperature regulation, 1942, 136: 619
- temperature regulation, 1943, 139: 56
- BIREFRINGENCE**
- contractile power of muscle, 1940, 131: 156
- BIRKELAND, J. M.:** *see* SALLMAN, B.
- BIRMINGHAM, J. R.:** *see* RICHTER, C. P.
- BIRTH**
- respiratory regulation, 1938, 121: 242
- Bis(β-CHLOROETHYL)AMINE**
- convulsant activity, 1950, 160: 197
- inhibitory effect on brain cholinesterase, 1950, 160: 192
- Bis 2,2-CHLOROETHYLDIMETHYL CHLORIDE**
- convulsant activity, 1950, 160: 198

- BIS(β -CHLOROETHYL)SULFIDE**
convulsant activity, 1950, 160: 198
- 2,2 BIS (P-CHLOROPHENYL) 1,1,1 TRICHLOROETHANE:**
see DDT
- BIS-TRIMETHYLAMMONIUM DECANE**
neuromuscular excitation, 1950, 162: 475
- BISCHOFF, F.** Absorption of gonadotropins and sodium lauryl sulfate, 1945, 145: 123
- Anti-gonadotropic hormone, 1948, 153: 21
- Augmentation of gonadotropic extracts, 1938, 121: 765
- and CLARKE, GEORGENA J. Nephrectomy and ovarian response to gonadotropins, 1943, 138: 241
- and KATHERMAN, R. E. Serum and red cell distribution of estradiol, 1948, 152: 189
- and PILHORN, H. R. Bioassay of steroid hormones, 1947, 150: 444
- , KATHERMAN, R. E. and FAVATI, V. Steroid hormones in biologic systems, 1951, 165: 667
- , KATHERMAN, R. E. and YEE, Y. S. Activation of estrone by red cells, 1951, 164: 774
- BISULFITE-BINDING SUBSTANCES**
of blood, manganese intake, 1944, 141: 648
- BITTERLING TEST**
measure of concentration of steroids in adrenal cortex, 1941, 134: 125
- BITTERS**
prefeeding of, and regulation of food intake, 1951 164: 185
- BIXBY, E. W.:** *see* SPEALMAN, C. R.
- BLACK, H.:** *see* ROOS, A.
- BLACK, S.:** *see* MCKIBBIN, J. M.
- BLACK, W. A. and KARPOVICH, P. V.** Exercise and erythrocyte sedimentation, 1945, 144: 224
- BLACKBERG, S. N.** *see* HRUBETZ, M. CAROLINE
- BLADDER**
pathways from hypothalamus, 1940, 130: 74
pelvic nerve section, 1951, 166: 692
permeability to water, 1951, 165: 87
reflex responses to distention, 1938, 121: 32
response to hypothalamic stimulation, 1939, 125: 303
spinal shock, 1938, 122: 62
volume-pressure relations, 1951, 166: 686
- BLAIR, E. A.** Local excitatory process in axons, 1938, 123: 455
- and ERLANGER, J. Interaction of medullated nerve fibers, 1940, 131: 483
- and ERLANGER, J. Nerve excitation across a block, 1939, 126: 97
- *See* ERLANGER, J.
- BLAIR, H. A.** Acetylcholine and excitability of frog muscle, 1938, 124: 372
- and WEDD, A. M. Action of cardiac ejection on venous return, 1946, 145: 528
- , DERN, R. J. and BATES, P. L. Measurement of volume of gas in digestive tract, 1947, 149: 688
- , WEDD, A. M. and HARDWICKE, H. M. Normal pneumocardiogram, 1942, 136: 523
- , WEDD, A. M., and YOUNG, A. C. Q-T interval and other cardiac events, 1941, 132: 157
- *See* DERN, R. J.
- *See* WEDD, A. M.
- BLAIR, J. R.:** *see* KELLER, A. D.
- BLAKE, W. D.** Exercise on water and sodium excretion, 1951, 165: 149
- , WÉGRIA, R., KEATING, R. P. and WARD, H. P. Venous pressure and renal function, 1949, 157: 1
- , WÉGRIA, R., WARD, H. P. and FRANK, C. W. Renal excretion of sodium, 1950, 163: 422
- *See* ORLOFF, J.
- BLALOCK, A.:** *see* LEVY, S. E.
- BLANCHARD, E. W. and TALLMAN, R. C.** Oral assay of adrenal cortical hormone, 1938, 124: 583
- *See* GERBER, C. F.
- *See* ROUSE, SYLVIA B.
- BLANKSTEIN, S. S.:** *see* SIMONSON, E.
- BLATHERWICK, N. R., EWING, MARY E. and BRADSHAW, PHOEBE J.** Effects of zinc and iron on insulin hypoglycemia, 1938, 121: 44
- *See* BEACH, E. F.
- BLATT, HESTER:** *see* COPE, O.
- BLEEDING DISEASE:** *see* HEMOPHILIA
- BLEEDING VOLUME**
ascorbic acid, hemorrhagic shock, 1946, 147: 599
during various traumatic procedures, 1945, 144: 595
estimation of residual, 1944, 141: 677
in hemorrhagic shock, 1946, 147: 157
of dog, blood substitutes, 1943, 140: 420
of guinea pigs in hemorrhagic shock, 1946, 147: 591
- BLICKENSTAFF, D. and GROSSMAN, M. I.** Pyrexia and gastric secretion, 1950, 160: 567
- , GROSSMAN, M. I. and IVY, A. C. Duodenal secretion, 1949, 158: 122
- BLOCH, E. and NECHELES, H.** Occurrence of acetylcholine in gastric juice, 1938, 122: 631
- BLOCH, H. I.:** *see* DE BODO, R. C.
- BLOOD**
absorption by peritoneum, 1948, 153: 277
acid-base equilibrium of, in exercise, 1942, 137: 743
amount obtainable from azygos vein, in Rimpl experiment, 1946, 145: 443
various drugs and, 1946, 145: 443
apparatus for rapid transfer, 1950, 163: 530
content, of finger pad, forearm, and forehead, 1947, 150: 122
cysteine protection in α -irradiation, 1951, 166: 15
development of turbulence, 1949, 159: 401
disappearance of colloidal chromic phosphate, 1951, 165: 591
of tyrosine, 1942, 136: 460
enzyme studies, 1949, 156: 458; 1949, 159: 303
exercise, in relation to soreness, 1938, 122: 569
gas transfer between and colon, 1948, 153: 475
hemolyzed, coronary blood flow, 1950, 163: 545
hemorrhage and coagulation time, 1943, 138: 754
hypertonic solutions, 1951, 167: 749
infusion, in burn shock, 1947, 150: 432
movement of water and ions from intestinal lumen to, 1944, 142: 550
nitrogen clearance, 1942, 137: 715

- oxygenated, movements of carbon dioxide and chloride, 1947, 148: 568
- plasma injection, cell and dye content of arterial blood, 1947, 151: 303
- proteolytic enzyme system, 1951, 166: 594
- regeneration, biotin deficiency, 1945, 145: 56
 - cobalt, liver, 1941, 134: 746
 - folic acid, 1944, 142: 604
 - pyridoxine deficiency, 1945, 143: 436
- shed, vasoconstrictor substances, 1941, 133: 21; 1943, 139: 26
- time required for reduction of oxyhemoglobin, 1946, 147: 630
- time spent, in lung capillary, 1945, 143: 621
- transfusion vs. other fluid replacement in hemorrhagic shock, 1946, 147: 160
- variation in normal capacity for oxygen, 1944, 140: 487
- variations in temperature, 1942, 137: 33
- vasodilator effect of, 1951, 165: 135
- viscosity, blood flow, 1942, 135: 773
- whole, infusion fluid following hemorrhage, 1947, 150: 641
 - light transmittance, 1951, 165: 229
 - transfusion and traumatic shock, 1945, 144: 434
 - uptake of radioactive bromine, 1941, 134: 109
- BLOOD CLOR**
 - electrolytic resistance, 1949, 158: 367; 1949, 158: 379
 - protein content of, 1940, 128: 545
 - resistance, 1949, 158: 381
- BLOOD CLOTTING TIME**
 - certain substances, 1945, 144: 447
 - intravenous heparin, 1939, 125: 101
 - platelet quality, 1944, 141: 451
 - resistance, measurement in man, 1949, 158: 380
 - short capillary method of determining, 1950, 162: 632
- BLOOD COAGULATION**
 - acceleration by saliva, 1939, 125: 108
 - action of dicarboxylic acid, 1940, 130: 576
 - alpha tocopheryl phosphate, 1948, 153: 127
 - anticoagulants, 1940, 130: 760
 - antithrombin, 1941, 134: 54
 - aureomycin, 1951, 166: 578
 - by prostatic fluid, 1943, 139: 129
 - calcium, 1938, 121: 488; 1940, 131: 455; 1948, 152: 389
 - co-thromboplastin, 1951, 164: 105
 - defective mechanism in swine blood, 1942, 136: 357
 - evisceration, 1950, 160: 248
 - failure in swine, 1942, 136: 361
 - following x-irradiation, 1950, 161: 505
 - hemorrhage, 1943, 138: 753
 - heparin and thrombin inactivation, 1951, 165: 195
 - in bile fistula and jaundiced rats, 1939, 125: 423
 - in vitro release of histamine, 1949, 159: 332
 - inhibition, 1939, 125: 683
 - electrolytes, heparin, 1940, 128: 399
 - injected chymotrypsin, 1945, 143: 647
 - intravenous heparin, 1939, 125: 100
 - liver, 1951, 164: 111
 - normal and hemophilic plasma, 1945, 143: 67
 - platelet foci, 1949, 158: 84
 - prothrombin conversion factors, 1951, 166: 1
 - schema, 1942, 137: 183
 - serum ac-globulin, 1948, 152: 567
 - snake venom, 1941, 134: 609
 - specificity of thrombin action, 1939, 126: 310
 - T-1824 in blood, 1938, 121: 284
 - trypsin-like enzyme involved, 1939, 126: 661
 - vitamin K absorption, 1941, 135: 137
- BLOOD CONSTITUENTS: see under name of constituent**
- BLOOD FLOW**
 - acute arteriovenous fistula, 1949, 158: 106
 - adrenaline, 1941, 131: 547
 - after sympathectomy, 1949, 158: 324
 - arterially injected adrenaline, 1946, 146: 679
 - blood viscosity, 1942, 135: 773
 - choline, 1944, 142: 66
 - cooling, 1942, 137: 189
 - distal to constricting cuff, 1946, 147: 260
 - following lumbar sympathectomy, 1950, 160: 444
 - gasps, sighs, and yawns, 1944, 142: 721
 - hemorrhage and subsequent infusion, 1945, 143: 182
 - in an organ: *see* ORGAN
 - in vivo and perfused animal, 1941, 133: 24
 - intestinal, 1942, 135: 651
 - distention, 1940, 131: 368
 - regulation, 1951, 167: 413
 - oxygen consumption, 1947, 149: 531
 - physiological factors affecting, 1944, 141: 528
 - posture, 1942, 136: 382
 - spinal cardiovascular centers, 1945, 143: 700
 - through abdominal arteries, exercise, 1940, 128: 341
 - active mammary gland, 1938, 122: 152
 - arteries, streamline, 1945, 144: 706; 1947, 150: 52
 - bronchial artery, 1947, 148: 648
 - bronchial artery after pulmonary artery ligation, 1949, 157: 317
 - bronchial artery, drugs, 1947, 148: 661
 - carotid artery, G forces, 1947, 150: 20
 - denervated muscle, 1947, 150: 708
 - spleen, rhythmicity, 1939, 127: 119
 - stomach, 1943, 138: 314
 - submaxillary glands, 1941, 134: 446
 - uterus, 1947, 148: 80
 - uterus during pregnancy, 1947, 148: 80
 - various arteries, 1944, 140: 730
 - vessel with external constriction, 1944, 141: 291
 - vascular resistance in hemorrhagic shock, 1946, 147: 686
- BLOOD FLOW (MEASUREMENT OF)**
 - accuracy of thermostromuhr, 1942, 136: 250
 - apparatus for, in heart, 1950, 163: 136
 - in intact animal, 1951, 164: 401
 - by photoelectric strohmuhr, 1938, 123: 544
 - by thermostromuhr, errors, 1942, 136: 263
 - coronary, by nitrous oxide method, 1948, 152: 356
 - schematic representation, 1947, 149: 640
 - finger, automatic recording of, 1947, 151: 271
 - focal cerebral, recording of, 1940, 128: 489
 - in kidney, 1942, 137: 342; 1951, 167: 539
 - in liver, 1941, 132: 489

BLOOD FLOW (MEASUREMENT OF)

- in spleen, 1939, 127: 106
 - by Fick Principle and bubble flow meter, 1950, 160: 547
 - by PAH after renal ischemia, 1945, 144: 401
 - comparison of direct and indirect method, 1950, 163: 442
 - with electromagnetic flowmeter, 1938, 122: 788
- BLOOD FLOW, CEREBRAL:** *see* CEREBRAL BLOOD FLOW
- BLOOD FLOW, CORONARY:** *see* CORONARY BLOOD FLOW

BLOOD GASES

- anoxia, 1943, 138: 663
- asphyxia, 1948, 152: 687
- bisulfanilamide at high altitude, 1942, 136: 499
- cerebral blood and during diathermy, 1942, 136: 178
- early changes at moderate altitude, 1938, 122: 181
- exercise, 1950, 162: 56
 - in spinal dog, 1950, 162: 66
- hemorrhage, 1950, 161: 111
- hibernation, 1951, 167: 633
- hypothermia, 1951, 166: 58
- lymph formation, 1940, 131: 331
- pentothal and transport of, 1948, 153: 81
- posture, 1938, 124: 460
- sulfonamides, 1944, 140: 485
- tension, 1950, 160: 163
- vagotomy, 1940, 130: 679

BLOOD GROUPS

- dog blood, 1940, 131: 203; 1948, 154: 526

BLOOD PICTURE

- acute decompression stress, 1951, 164: 760
- anesthesia, 1948, 152: 7
- avitaminosis A, 1938, 122: 589; 1939, 126: 257
- in activity and in hibernation, 1942, 137: 432
- in normal and anemic rabbits, 1944, 142: 180
- in anition, 1947, 151: 526
- moderate altitude, 1938, 122: 179
- rats from birth, 1938, 124: 620
- seasonal variations in polynuclear count, 1938, 122: 520
- variability in women, 1943, 138: 626

BLOOD PRESSURE

- abdominal chemoreceptor, 1946, 147: 657
- acceleration, 1949, 156: 1
- acute arteriovenous fistula, 1949, 158: 104
- acute pressure on cord, 1945, 144: 578
- adrenalectomy, 1938, 122: 352
 - auditory stimulation, 1948, 155: 128
- adrenaline, 1942, 136: 90
 - fish, 1939, 126: 350
- age, 1938, 122: 477; 1938, 122: 491
 - sex, and specie variation, 1945, 143: 297
- anoxia, 1946, 146: 326; 1950, 160: 138
- apparatus for measuring in rats, 1945, 143: 216
- arteriovenous fistula, 1951, 167: 426
- ascorbic acid, hemorrhagic shock, 1946, 147: 599
- asphyxia and TEA, 1950, 163: 554
- asystolic gradient, as a measure of peripheral vascular resistance, 1948, 155: 132
- audiogenic stimuli, 1945, 143: 302
- auditory stress, 1948, 155: 118

- auscultatory method of determining, 1951, 166: 296
- barbital anesthesia, 1943, 140: 237
- blood volume, 1938, 122: 140
- body temperature, 1945, 143: 292; 1947, 151: 509; 1949, 158: 135
- callicrein, 1944, 142: 523
- carbon arc irradiation, 1943, 139: 604
- cardiac activity, 1943, 139: 675
- carotid body, acceleration, 1948, 152: 492
- carotid-occlusion-pressor reflex, 1950, 162: 553
- central nervous system control, 1950, 161: 92
- changes during anesthesia, 1939, 128: 241
 - immediately before fainting, 1945, 143: 14
- chloralose anesthesia, 1941, 131: 563
- choline deficiency, 1947, 148: 560
- cinchona alkaloids, 1948, 155: 114
- climate, 1940, 129: 107
- CO₂, 1938, 124: 730; 1947, 151: 479; 1947, 151: 489
- complete transection of cord, 1943, 139: 217
- coronary flow, 1947, 148: 586
- cortical responses, 1943, 139: 335
- cough, 1944, 141: 45
- cross-circulation experiments, reaction to various drugs, 1949, 159: 443
- decompression rate, 1947, 150: 608
- dehydroascorbic acid, 1951, 167: 120
- depression due to substance present in urine, 1948, 155: 345
- dial-urethane anesthesia, 1950, 162: 308
- dibenamine in hemorrhage, 1950, 161: 116
- diethylstilbestrol, 1943, 139: 17
- direct arterial and venous measurement, 1939, 128: 238
- distal to constricting cuff, 1946, 147: 260
- drugs, 1945, 143: 90
- during CO₂ breathing, exercise, and hyperventilation, 1947, 149: 43
- during labor, 1938, 121: 640
- elevation with estradiol dipropionate, 1951, 164: 70
- environmental conditions, 1940, 129: 92
- ether, 1941, 134: 67
- exercise, 1939, 125: 614
 - after denervation, 1943, 138: 689
 - comparison of men and women, 1942, 137: 320
- experimental hypertension in rats, 1939, 125: 586
- experimental shock, 1947, 148: 292
- explosive decompression, 1946, 147: 289
- 933 F, 1939, 127: 29
- factors affecting in experimental renal hypertension, 1949, 156: 422
- fall as initiation of circulatory crisis, 1951, 165: 309
- fall due to tissue injury, 1950, 160: 22
- fasting, 1951, 166: 301
- fibrinolysin, 1947, 150: 472
- finger tip volume, 1943, 138: 618
- fluctuations with respiration, 1942, 137: 621
- focal cerebral, recording of, 1940, 128: 489
- following moderate and severe hemorrhage, 1947, 150: 645
 - muscle trauma, 1944, 140: 492
 - renal ischemia and nephrectomy, 1946, 147: 648
 - stimulation of hypothalamus, 1939, 127: 597

- G forces, 1947, 150: 14
 gasps, sighs, yawns, 1944, 142: 721
 genetic variability, 1951, 166: 20
 glomerular filtration rate, 1947, 150: 538
 graded pressures on tail of mouse, 1949, 158: 117
 gravity, 1942, 135: 413
 gravity shock, 1944, 141: 228
 heated kidney extracts, 1940, 128: 678
 hemorrhage, 1942, 137: 253; 1943, 140: 423; 1950, 161: 111
 hemorrhage, heart rate and deafferentation, 1947, 148: 551
 hemorrhagic shock, 1944, 140: 490; 1944, 140: 680; 1945, 144: 209; 1946, 145: 702; 1946, 147: 591
 hemorrhagic and traumatic shock, 1947, 148: 170
 histamine, 1942, 137: 289
 hypothalamus, 1941, 134: 359
 hypothermia, 1950, 161: 455
 in auricular fibrillation, 1950, 163: 135
 in normal and vitamin E deficient rats, 1945, 143: 216
 in renal artery, and renal blood flow, 1951, 167: 676
 in renal hypertension, 1940, 128: 437; 1940, 130: 568
 indirect determination, in rat, 1946, 146: 179
 ingestion of carbohydrate, 1941, 133: 687
 injected chymotrypsin, 1945, 143: 650
 hypertonic solutions, 1950, 160: 17
 intercranial pressure, anoxia, and hypoglycemia, 1939, 128: 189
 intestinal absorption, 1947, 150: 468
 intra-abdominal pressure, 1947, 149: 293
 intracisternal potassium phosphate, 1945, 145: 224
 intravenous injection, 1947, 151: 516
 ischemic compression shock, 1944, 142: 494
 isolated heart, 1945, 143: 472; 1945, 143: 495; 1945, 143: 507
 kidney extracts, 1944, 140: 631
 large doses of insulin, 1939, 128: 127
 limb weight, 1948, 152: 477
 liver, 1950, 160: 421
 massive transfusion, hemorrhage, 1950, 163: 529
 measurement in rats, 1944, 141: 625
 mechanism of carotid sinus reflex, 1947, 150: 712
 nephrectomy, 1951, 165: 168
 nor-epinephrine, adrenal cortical extract and, 1951, 165: 450
 of fetal rats, 1942, 137: 477
 of hamster during arousal, 1950, 163: 573
 of human infants, 1938, 122: 472
 on breathing pure oxygen, 1946, 146: 63
 partial cerebral ischemia, 1946, 146: 470
 phosgene gassing, 1946, 147: 329
 pithing, 1940, 130: 1
 pitressin, 1940, 129: 561
 posterior pituitary hormone, 1944, 142: 116
 pressor compounds, 1940, 128: 563; 1943, 139: 675
 pressor responses in adrenalectomized dogs, 1950, 161: 21
 prolonged injection of adrenaline, 1941, 131: 547
 pulmonary artery, in turtle, 1942, 137: 628
 reduction time of oxyhemoglobin, 1946, 147: 635
 reflex responses of, 1938, 121: 32
 regulation, 1946, 146: 410
 during diving, 1942, 135: 559
 regulatory mechanisms, 1951, 164: 360
 renal blood flow, 1946, 147: 537
 renal clearance, 1949, 159: 369
 renal function, 1947, 150: 534
 renin, 1942, 136: 732; 1942, 137: 570
 angiotonin, 1941, 134: 789; 1941, 135: 88; 1941, 135: 124
 tyramine, after adrenalectomy, 1940, 128: 483
 respiratory waves, 1940, 129: 289
 response, nephrectomy, 1941, 135: 124
 response to tipping, 1946, 147: 661
 response to Valsalva test, 1948, 154: 316
 rhythmic variations in, CNS control, 1950, 161: 92
 role of kidney in modifying response to sustained pressor principle, 1947, 151: 606
 scalds, 1944, 142: 368
 semi-starvation, rehabilitation, 1947, 150: 161
 serum salts, 1939, 127: 722
 severe hypoxemia, 1948, 152: 625
 shock, 1938, 124: 24; 1942, 137: 281
 skeletal muscular activity, 1941, 132: 321
 sodium chloride in heat, 1943, 140: 443
 spinal cardiovascular centers, 1945, 143: 700
 spinal cord transection, 1941, 134: 310
 standing wave, in aorta, 1939, 125: 48
 static effort, 1947, 150: 114
 stimulation of the cortex, 1948, 152: 314
 stroke volume of heart, 1948, 153: 287
 systemic, renal function, 1945, 145: 333
 TEA, 1949, 158: 403
 temperature in mouse, 1948, 153: 330
 thermal stimulation of brain, 1950, 160: 406
 thermal trauma, 1943, 139: 574
 thiocyanate, 1945, 144: 704
 tissue injury, 1950, 160: 21
 tourniquet shock, 1945, 143: 99; 1945, 144: 496; 1946, 146: 256
 tracings from left auricle and pulmonary veins, 1947, 150: 267
 transplanted kidney, 1938, 123: 383
 traumatic shock, 1943, 140: 199; 1944, 141: 57; 1945, 144: 434; 1947, 148: 101; 1950, 161: 125; 1951, 165: 353
 cross-transfusion, 1947, 149: 114
 turtle, changes caused by thermosensitivity of brain, 1950, 160: 402
 variations in and finger tip volume, 1943, 138: 618
 various factors, 1938, 122: 477
 vascular factors in, 1938, 123: 644
 vascular resistance in hemorrhagic shock, 1946, 147: 685
 venous, collapse factor in measurement of, 1941, 134: 292
 veratramine and, 1951, 167: 714
 vitamin D and other sterols, 1943, 138: 385
 vitamins A and D₂, 1943, 140: 226
 work after training, 1946, 146: 425
 BLOOD PRESSURE, HIGH: *see* HYPERTENSION

See page iii for guide to use of index

BLOOD PRESSURE, Low: *see* HYPOTENSION

BLOOD SUBSTITUTES

measurement of bleeding volume, 1943, 140: 420

BLOOD SUGAR

acclimatization to anoxia, 1948, 155: 10

to high altitude, 1947, 149: 574

acid stimulation of duodenum, 1940, 128: 301

acute hypothermia, 1947, 149: 555

adrenal cortex and, 1938, 122: 460; 1947, 150: 424; 1949, 157: 418

adrenalectomy, 1938, 122: 447; 1938, 123: 708

exposure to cold, 1944, 141: 657

insulin, 1941, 131: 792

adrenaline, 1939, 126: 299

anoxia, 1947, 150: 323

arterially injected, 1946, 146: 679

central effect, 1947, 150: 590

in normal and adrenalectomized rats, 1946, 146: 387

age and in ruminants, 1950, 162: 436

alloxan, 1949, 156: 356; 1950, 160: 228

altitude, 1949, 158: 358

anesthesia, 1948, 152: 7; 1950, 160: 279

anoxia, 1940, 129: 613; 1944, 140: 476; 1948, 154: 423; 1951, 167: 103; 1951, 167: 559

anterior pituitary, 1942, 137: 675

arterio-venous differences, after shock, 1945, 144: 235

uptake of, adrenaline, 1947, 149: 68

barbital derivatives, 1938, 122: 759

blood amino nitrogen, urea nitrogen, 1940, 128: 774

body temperature, in chicken, 1947, 150: 67

callicrein, 1944, 142: 531

caloric restriction, 1948, 154: 519

carbohydrate tolerance after fasting, 1946, 147: 230

carbon dioxide, and vasomotor center, 1940, 130: 256

chloralose anesthesia, 1941, 131: 563

chymotrysin, 1945, 143: 279

circulatory shock, 1942, 137: 365

C.N.S. impairment in shock, 1944, 142: 299

coccidiosis, bleeding, 1941, 134: 19

comparison of Hagedorn-Jensen method and Somogyi method, 1947, 150: 264

comparison of venous and arterial, 1951, 165: 407

cortin and hepatectomy, 1940, 128: 731

dehydration, starvation, 1947, 148: 603

diabetic acidosis, 1947, 149: 669

dietary protein, 1951, 164: 131

ACTH, 1951, 164: 131

diethylstilbestrol and, 1942, 136: 137; 1946, 145: 413

diurnal rhythm, 1943, 139: 109

duodenal hydrochloric acid, 1939, 126: 272

emotion, 1939, 125: 730

exercise and, sex on, 1942, 137: 320

external pancreatic secretion, 1941, 134: 208

fasting, after evisceration, 1944, 141: 477

in normal and dwarf mice, 1939, 125: 459

frontal lobectomy, 1947, 149: 249

genetic factors, 1950, 163: 410

gluconeogenesis of kidney, 1949, 156: 345; 1950, 163: 655

gravity shock, 1951, 165: 543

growth hormone, 1944, 141: 89

hemorrhage, 1945, 143: 584

high: *see* HYPERGLYCEMIA

high acceleratory forces, 1946, 146: 47

high altitude, 1946, 145: 365

hormones, 1940, 128: 777; 1941, 132: 446

hunger periods, 1938, 123: 243

hypothalamic stimulation, emotion, sham rage, 1941, 133: 532

in diabetic parabiotic rats, 1947, 148: 186

in eviscerated rat, after nephrectomy, 1946, 146: 359

intravenous saline, 1945, 144: 257

in hypophysectomized rats, anoxia, adrenaline, 1946, 146: 387

in pancreatic diabetes in calf, 1949, 156: 349

in pyridoxine deficiency, 1946, 146: 733

in radiation syndrome, 1951, 165: 30

in rats fed glucose, 1940, 128: 557

in severely diabetic rats, 1951, 165: 469

in work during fasting, 1945, 143: 151

inflammation, 1941, 134: 517

ingestion of sucrose, 1947, 150: 265

injected sugar, 1940, 129: 785

injection of dehydroascorbic acid, 1951, 165: 63

insulin in eviscerated and adrenalectomized rats, 1949, 159: 115

intestinal absorption of glucose, in chick, 1942, 136: 247

intravenous glycogen, 1950, 161: 556

kidney, 1948, 153: 47; 1948, 153: 205

low: *see* HYPOGLYCEMIA

maintenance of after evisceration, 1942, 136: 100; 1943, 140: 100; 1943, 140: 276; 1944, 141: 3; 1944, 142: 244

meals, 1946, 145: 408

necrosin, 1946, 147: 379

neurogenic control of, and body temperature, 1950, 162: 175

of fasting pigeons in extreme cold, 1950, 161: 303

of frogs given insulin, 1944, 141: 113

of plasma, radiation syndrome, 1951, 165: 43

potassium, 1938, 122: 525

regulation by liver, 1938, 124: 558

resistance to low oxygen tension, 1946, 146: 26

shock, 1945, 145: 97

sorbitol injection, 1939, 125: 655

starvation, recovery, 1947, 151: 526

stilbestrol, 1946, 145: 412

sudden cooling, 1940, 129: 246

survival of decapitated head, 1945, 144: 658

of isolated respiratory center, 1946, 146: 242

sympathectomy, 1939, 125: 541

sympathin, 1938, 121: 728

tetra-methyl-ammonium-iodide, 1940, 131: 510

thyroid, 1948, 152: 104

tourniquet shock, 1945, 144: 494; 1946, 147: 66

- training, 1941, 132: 757
 tryptophane, 1948, 153: 425; 1949, 158: 38
 urine, following hepatectomy, 1938, 121: 204
 various organs, 1947, 148: 324
 vision during anoxia, 1945, 144: 382
BLOOD SUPPLY: see CIRCULATION
BLOOD TRANSFUSION: see TRANSFUSION
BLOOD VELOCITY RATE
 total blood volume, 1938, 121: 802
BLOOD VESSELS
 adjustment to dry heat, 1943, 139: 583
 adrenotropic receptors, 1948, 153: 590
 as factors in hemorrhagic shock, 1942, 136: 421
 critical closing pressure, 1951, 164: 330
 cytolytic effect of saponin on walls, 1943, 138: 432
 defect in bleeding disease, 1943, 139: 117
 drugs, denervation, 1943, 139: 423
 equilibrium diagram, 1951, 164: 323
 flow of inferior vena cava, 1947, 148: 742
 frost-bite, 1947, 149: 149
 methods for studying pressure versus flow, 1951, 164: 332
 perfused, capillary permeability, 1946, 146: 126
 peripheral, in scurvy, 1947, 149: 465
 permeability, physical factors, 1944, 142: 671
 physical equilibrium, 1951, 164: 319
 pulmonary, reactivity, 1951, 167: 735
 reflex activation of vasodilators in dorsal spinal roots, 1946, 145: 474
 refractoriness produced by benadryl and BAL, 1949, 156: 405
 smooth muscle motor-units, 1942, 135: 533
 sympathectomy, 1949, 158: 319
 systemic peripheral, coronary blood flow, 1945, 143: 479
 thermal gradients, 1950, 161: 316
 variations of reactivity, 1949, 156: 412
BLOOD VOLUME
 adaptation of optical filters and photocells for determination, 1947, 150: 639
 altitude acclimatization, 1951, 167: 52
 bed rest, 1945, 144: 228
 bleeding and dye methods of estimation, 1951, 164: 611
 blood flow, 1939, 127: 492
 carbon monoxide uptake, 1946, 147: 353
 cardiogenic shock, 1951, 166: 603
 climate, 1940, 129: 72; 1940, 130: 743
 combined hemorrhagic and traumatic shock, 1945, 144: 595
 cortin after hepatectomy, 1940, 128: 731
 deafferentation, 1947, 148: 549
 determination, 1946, 146: 739; 1947, 150: 629; 1949, 156: 277
 disappearance time of dye, 1943, 138: 698
 environmental conditions, 1941, 134: 165
 experimental shock, 1947, 148: 291
 growth, 1944, 141: 703; 1944, 142: 97
 hemorrhage, 1946, 146: 746
 hemorrhagic shock, 1945, 143: 249; 1945, 143: 257
 hemorrhagic shock treated with cell-free fluids, 1945, 144: 221
 high altitude, 1941, 132: 555
 histamine subcutaneously, 1944, 142: 163
 increased, right and left auricular pressures, 1948, 155: 336
 minimum requirements for survival of hemorrhagic shock, 1945, 144: 211
 muscle trauma, 1946, 146: 746; 1947, 148: 104
 of normal children, measured with T-1824, 1947, 151: 448
 partial hepatectomy, 1942, 135: 607
 plasma volume, and body fluid in trained dogs, 1947, 151: 504
 body weight in rat, 1949, 156: 218
 plasma and cell volume with T-1824, 1942, 137: 381
 possible differences between total and circulating, 1941, 134: 808
 radioactive iron in study of, 1942, 135: 601
 radioactive red cell method to determine, 1947, 148: 533
 reduction, cold or ether anesthesia, 1947, 148: 193
 constant infusion of epinephrine, 1951, 165: 323
 shock following hemorrhage, 1943, 138: 450
 reduction necessary for progressive fatal shock, 1945, 143: 249
 roentgenographic observations, 1941, 134: 808
 seasonal and postural changes, 1941, 133: 128
 seasonal variation, 1947, 148: 457
 shock, 1938, 124: 24
 simultaneous determinations by CO and T-1824, 1946, 146: 739
 spinal anesthesia, surgery, 1950, 161: 239
 splenectomy, 1946, 146: 746
 temperature, posture, 1947, 150: 633
 total, in normal dogs, 1938, 121: 804
 traumatic shock, 1945, 144: 435
 various experimental procedures, 1946, 146: 746
 vascular hypertension, 1938, 122: 140
 whole-body x-irradiation, 1951, 164: 453
 work, 1947, 149: 183
BLOOD-BRAIN BARRIER: see HEMATO-ENCEPHALIC BARRIER
BLOOD-CEREBRO-SPINAL FLUID BARRIER
 impermeability to adrenaline, 1947, 150: 590
 permeability to bromide, potassium, and chloride ions, 1945, 143: 87
 to ions, 1943, 140: 47
BLOOD, F. R. and D'AMOUR, F. E. Altitude and artificial respiration, 1949, 156: 52
 —, ELLIOTT, R. V. and D'AMOUR, F. E. Physiology of the rat in extreme anoxia, 1946, 146: 319
 —, GLOVER, R. M., HENDERSON, J. B. and D'AMOUR, F. E. Hypoxia and body temperature, 1949, 156: 62
 —, SMITH, D. L. and D'AMOUR, F. E. Cardiac output in the rat, 1950, 163: 268
 — See SMITH, D. L.

- BLOOM, B., CHAIKOFF, I. L. and REINHARDT, W. O. Pathway for transport of fatty acids, 1951, 166: 451
- BLOOM, W. L., NICHOLS, CAROLINE J. and BUSEY, J. Intravenous injection of glycogen, 1951, 165: 288
- See BEVAN, W., JR.
- BLOOMER, W. E., HARRISON, W., LINDSKOG, G. E. and LIEBOW, A. A. Respiration after pulmonary artery ligation, 1949, 157: 317
- BLOOMFIELD, R.: see EGAÑA, E.
- BLOOR, W. R.: see FENN, W. O.
- BLUM, H. F. and TERUS, W. S. Erythema threshold for sunburn, 1946, 146: 107
- and TERUS, W. S. Inhibition of sunburn erythema by ultraviolet radiation, 1946, 146: 97
- , EICHER, M. and TERUS, W. S. Protective measures against sunburn, 1946, 146: 118
- , GRADY, H. G. and KIRBY-SMITH, J. S. Ultraviolet radiation and body weight of mice, 1943, 138: 378
- BLUMENFELD, C. M. and CLAUSEN, F. W. Relationship between adrenal and parathyroid glands, 1940, 128: 577
- BLUMENTHAL, M. R.: see WÉGRIA, R.
- BLYTHE, W. B.: see BUCKWALTER, J. A.
- BMR: see BASAL METABOLIC RATE
- BOAK, RUTH A. see FENN, W. O.
- BOAR
resistance of spermatozoa, 1944, 141: 620
- BOATMAN, J. B. and MOSES C. Iodine transport by erythrocyte, 1951, 164: 783
- BOBB, J. R. R. and GREEN, H. D. Heparin and ischemic compression shock, 1947, 150: 697
- and GREEN, H. D. Kidney and ischemic compression shock, 1947, 150: 700
- BOBBITT, BLANCHE G. and DEUEL, H. J., JR. Liver glycogenolytic rate in different species, 1940, 131: 521
- BOBEY, M. E., LONGLEY, L. P., DICKES, R., PRICE, J. W. and HAYMAN, J. M., JR. Uranium poisoning and renal function, 1943, 139: 155
- BODANSKY, O.: see TEPPERMAN, J.
- BODIAN, D. see MAREN, T. H.
- BODNAR, S. R.: see GUEST, M. M.
- BODO, R. C. and BENAGLIA, A. E. Sympathin and blood sugar, 1938, 121: 728
- and BENAGLIA, A. E. Sympathin and hyperglycemia in emotional excitement, 1938, 121: 738
- See DE BODO, R. C.
- BODY
B complex deficiency and water content, 1944, 141: 85
buoyance and respiratory modifiers, 1942, 137: 136
three-electrode technic, for studying bioelectric phenomena, 1946, 146: 404
- BODY CONSTITUTION
oxygen metabolism, 1940, 129: 1
- BODY FAT
body chloride, 1940, 130: 609
boron supplements to a potassium-low diet, 1945, 143: 385
high fat diet, 1944, 142: 510
- BODY FLUID
distribution, as measured with thiocyanate, 1943, 139: 255
in dehydration, 1948, 152: 66
hypertonic plasma, 1942, 136: 196
magnesium content during hypothermia, 1950, 161: 399
response to injected substances, 1944, 140: 589
sucrose, 1942, 137: 723
volume in trained dogs, 1947, 151: 504
- BODY POSITION
influence on motion sickness, 1946, 146: 458
- BODY REGION
water loss in various, 1943, 138: 603
- BODY SIZE
as related to growth rate and metabolic rate, 1950, 161: 294
cooling rate in immersion hypothermia, 1950, 163: 583
energy exchange in work, 1942, 136: 363
growth hormone, 1939, 125: 747
oxygen consumption of pilot on simulated flight, 1946, 146: 397
- BODY SPECIFIC GRAVITY
fat content of the body, 1947, 149: 201
methods for determining, 1947, 149: 195
- BODY SURFACE
heat production in tropics, 1947, 148: 478
lung ventilation at work, rest, 1946, 146: 396
oxygen consumption at work and rest, 1946, 146: 396
- BODY TEMPERATURE: see TEMPERATURE (BODY)
- BODY WATER: see WATER, of body
- BODY WEIGHT
acclimatization to high oxygen, 1944, 142: 469
activity and hypothalamic obesity, 1946, 147: 708
after prolonged anterior pituitary treatment, 1946, 147: 302
age relationships, 1948, 153: 35
altitude acclimatization, 1951, 167: 53
androgens, 1948, 153: 210
blood hypertensinogen, 1949, 158: 401
blood volume, plasma volume, thiocyanate space, 1949, 156: 218
bone growth, 1946, 146: 586
boron supplements, potassium-low diet, 1945, 143: 389
cobalt, 1943, 139: 401
eating habit in hypothalamic obesity, 1946, 147: 738
epinephrine of adrenals, 1950, 162: 413
estrogen, 1946, 147: 523; 1947, 151: 127
estrogens and x-ray injury, 1949, 159: 274
food intake, insulin, 1947, 149: 100
gain, factor affecting, 1945, 143: 2
gastrointestinal response to glucose ingestion, 1945, 144: 617
hypothalamic lesions, 1946, 147: 695

- insulin, liver fat, anterior pituitary extracts, 1946, 147: 742
- loss, acclimatization to heat, 1947, 148: 88
due to evaporation, 1940, 129: 89
during work, 1942, 136: 364
in exercise, 1938, 121: 293
- normal muscle weight, 1944, 142: 223
- O₂ consumption and food-feces ratio in hypothalamic obesity, 1946, 147: 717
- on nitrogen-free diet, 1938, 121: 234
- pituitrin inhibition of water loss, 1940, 130: 405
- red cell mass, 1944, 141: 363
- renal plasma flow, 1948, 153: 169
- sodium chloride, work in dry heat, 1943, 140: 444
- steroids, 1949, 158: 54
- stilbestrol, estrone, 1945, 144: 365
- testosterone, in fasted, castrated rats, 1948, 155: 272
- total biliary fistula, 1945, 144: 628
- ultraviolet radiation, 1943, 138: 378
- varied thiamin intake, 1945, 144: 643
- vitamin B complex, hyperthyroid rats, 1938, 124: 683
- BOELTER, MURIEL D. D.: *see* GREENBERG, D. M.
- BOGART, R. and MAYER, D. T. Temperature and the thyroid in reproduction, 1946, 147: 320
- , SPERLING, G., BARNES, L. L. and ASDELL, S. A. Female reproductive condition and growth, 1940, 128: 355
- *See* LASLEY, J. F.
- *See* MUHRER, M. E.
- BOGDANOVITCH, S. B. and MAN, EVELYN B. Sexual hormones and fat metabolism, 1938, 122: 73
- BOHNING, A.: *see* KATZ, L. N.
- BOHR, D. F. and BEAN, J. W. Dehydrogenase inactivation in oxygen poisoning, 1940, 131: 388
- and BEAN, J. W. Oxygen poisoning in cardiac tissue, 1939, 126: 188
- *See* BEAN, J. W.
- BOHSTEDT, G. *see* MEYER, J. H.
- BOLLMAN, J. L. and FLOCK, EUNICE V. Changes in muscle phosphate during tourniquet shock, 1944, 142: 290
- and FLOCK, EUNICE V. Cholesterol in intestinal lymph, 1951, 164: 480
- and FLOCK, EUNICE V. Phosphate turnover in muscle during shock, 1945, 144: 437
- , FLOCK, EUNICE V., CAIN, J. C. and GRINDLAY, J. H. Lipids of lymph following feeding of fat, 1950, 163: 41
- *See* BERRYMAN, G. H.
- *See* FLOCK, EUNICE V.
- *See* GOLDSCHMIDT, A., JR.
- *See* HOGGEN, C. A. M.
- *See* MANN, J. D.
- *See* NIX, J. T.
- *See* OWEN, C. A., JR.
- BLOMEY, A. A.: *see* WESSON, L. G., JR.
- BOND, D. D. Heart rate and emotional stimulation of autonomic system, 1943, 138: 468
- *See* ROSENBLUTH, A.
- BOND, E. E.: *see* PITESKY, I.
- BOND, V. P., SWIFT, M. N., ALLEN, A. C. and FISHLER, M. C. Sensitivity of abdomen to X-ray, 1950, 161: 323
- *See* GOLDSCHMIDT, L.
- BONE MARROW
- cells, blood sera, 1948, 153: 496
- pteridines, 1948, 153: 496
- chloride content, 1938, 122: 228
- cholinesterase, 1947, 148: 677
- cobalt and glycolysis, 1944, 142: 174
- cobalt respiration, 1944, 142: 174
- culture, serum, 1948, 153: 483
- xanthopterin, 1948, 152: 175; 1948, 152: 652
- histamine content, 1941, 131: 768
- lesions due to potassium deficiency, 1945, 145: 292
- metabolism, 1940, 128: 456
- cellular components, 1940, 131: 176
- cobalt, 1944, 142: 174
- potassium arsenite, 1943, 139: 720
- radioactive colloidal gold, 1951, 164: 830
- respiration, 1940, 131: 176
- glycolysis in anoxia, 1941, 135: 249
- thiouracil, 1945, 145: 73
- thyroidectomy, thiouracil and metabolism, 1950, 162: 603
- BONES
- ash, age, body weight, 1946, 146: 587
- ash, aluminum, 1938, 124: 236
- atrophy of muscle, due to denervation, 1945, 143: 677
- chloride content, 1938, 122: 228; 1940, 129: 600
- composition on manganese-low diets, 1943, 140: 76
- estrogen, parathyroid glands, 1946, 147: 522
- fluoride storage, with various fluoride carriers, 1939, 126: 716
- growth, age, body weight, 1946, 146: 586
- nutritional deficiency, 1946, 146: 590
- various factors, 1946, 146: 585
- injection of epinephrine, 1943, 138: 269
- phosphatase in scurvy, 1942, 135: 487
- properties, in antirachitic healing, 1942, 138: 34
- radioactive fluoride, 1941, 132: 707
- x-ray diffraction studies, 1945, 144: 632
- vitamin D, 1945, 143: 416
- zinc content, 1938, 124: 753
- BONGIOVANNI, A. M.: *see* MEDOFF, H. S.
- BONNER, J. F., JR.: *see* HAHN, P. F.
- BONNYCASTLE, D. D. Body fluid volumes, 1947, 151: 504
- and CLEGHORN, R. A. Blood volume of normal dogs, 1942, 137: 380
- BOOK, D.: *see* ECKSTEIN, R. W.
- BOOKER, W. M., FRENCH, D. M. and MOLANO, P. A. Acute effects of intra-abdominal pressure, 1947, 149: 292
- , HAYES, R. L., SEWELL, MARIANNA B. and DENT, FRANCES MAE DENT. Ascorbic acid metabolism, 1951, 166: 374
- *See* FRENCH, D. M.
- BOOTHBY, W. M.: *see* BERKSEN, J.
- BOQUET, P., DWORETZKY, M. and ESSEX, H. E. Toxicities of snake venom, 1950, 161: 561

- BORASKY, R. and BRADBURY, J. T. Frozen plant juice as source of an ovulation factor, 1942, 137: 637
- BORCH-MADSEN, P. Experimental achlorhydria, 1950, 161: 413
- BORDLEY, J. E.: *see* WALZL, E. M.
- BORISON, H. L. Neural mechanism and spasmodic respiration, 1948, 154: 55
— *See* WANG, S. C.
- BORKON, E. L.: *see* GALAPEAUX, E. A.
- BORKOVIC, E. J.: *see* LOONEY, J. M.
— *See* MICHAEL, S. T.
- BORNSTEIN, H.: *see* ROBBARD, S.
- BORON
animal nutrition, 1939, 127: 689; 1944, 140: 515
content of foods, 1939, 127: 689
determination of, 1939, 127: 689
metabolism, 1939, 127: 695
potassium deficient rat, 1947, 150: 520
rat incisor, 1943, 139: 233
utilization on potassium-low diets, 1945, 143: 389
- BORRERO, L. M.: *see* PAPPENHEIMER, J. R.
- BORSON, H. J., SINGMAN, D., LEPKOVSKY, S., DIMICK, M. K., GASC, V. and PERRY, R. Vitamin B₁₂ deficiency, 1950, 162: 714
— *See* LEPKOVSKY, S.
- BOSSHARDT, D. K., CIERESKO, L. S. and BARNES, R. H. Pancreas and lipotropic activity, 1951, 166: 433
- BOTT, PHYLLIS A.: *see* RICHARDS, A. N.
— *See* WALKER, A. M.
- BOURQUE, J. E. and LOEW, E. R. Histamine antagonists and gastric secretion, 1943, 138: 341
- BOUTHILET, R.: *see* LEPKOVSKY, S.
- BOUTWELL, R. K., BRUSH, MIRIAM K. and RUSCH, H. P. Chronic caloric restriction, 1948, 154: 517
- BOWEN, W. J. ATP and muscle contraction, 1951, 165: 10
— and EADS, H. J. Altitude and myoglobin, 1949, 159: 77
- BOWMAN, K. M.: *see* HIMWICH, H. E.
- BOYARSKY, L. R., ROSENBLATT, A. D., POSTEL, S. and GERARD, R. W. Fluoroacetates on nerve respiration and potential, 1949, 157: 291
— *See* SAMUELS, A. J.
- BOYD, E. M. and BROWN, G. M. Frog weight and posterior hypophysis extract, 1938, 122: 191
— and GARAND, N. D. Pituitrin inhibition of water loss in rats, 1940, 130: 403
— and RONAN, ALICE. Excretion of respiratory tract fluid, 1942, 135: 383
— and WHYTE, D. W. Hypophyseal extract and retention of water and salt, 1939, 125: 415
— and WHYTE, D. W. Posterior hypophysis extract and water loss by frogs, 1938, 124: 759
—, CLARK, K. J. and SMITH, A. E. Pituitrin and intake of water by frogs, 1940, 129: 645
—, EARL, T. J., JACKSON, SHIRLEY, PALMER, BETTY and STEVENS, MARY. Spontaneous changes in bile from chronic fistula, 1945, 145: 186
—, JACKSON, SHIRLEY and RONAN, ALICE. Sympathomimetic amines and respiratory tract secretion, 1943, 138: 565
—, MACK, E. G. and SMITH, A. E. Seasonal response of frog body water to pituitrin, 1939, 127: 328
—, PERRY, W. F. and STEVENS, MARY E. T. Respiratory tract damage and damaged tracheal mucosa, 1944, 140: 467
- BOYD, G. H., JR.: *see* REMINGTON, J. W.
- BOYD, T. E. Vagal effects on pulmonary ventilation, 1941, 132: 571
— and PATRAS, MARY C. Respiratory variations of cardiac output, 1941, 134: 74
— *See* BROOKHART, J. M.
— *See* PATRAS, MARY C.
- BOYDEN, A. A.: *see* COLE, W. H.
— *See* GREGERSEN, M. I.
- BOYLE, R. W. and SCOTT, F. H. Some factors in muscle soreness, 1938, 122: 569
— *See* McDONALD, C. H.
- BOZLER, E. Action potentials and activity of smooth muscle, 1946, 146: 496
— Action potentials of the stomach, 1945, 144: 693
— Action potentials of visceral smooth muscle, 1938, 124: 502; 1942, 136: 553
— Cardiac muscle tonus and initiation of impulses, 1943, 139: 477
— Conduction of excitation in smooth muscle, 1938, 122: 614
— Initiation of impulses in cardiac muscle, 1943, 138: 273
— Motility of gastrointestinal tract, 1939, 127: 301
— Myenteric reflex, 1949, 157: 329
— Pacemaker activity prior to impulse discharge, 1942, 136: 543
— Reflex peristalsis of the intestine, 1949, 157: 338
— Relaxation in muscle, 1951, 167: 276
— Sympathetic response of smooth muscle, 1940, 130: 627
— The response of smooth muscle to stretch, 1947, 149: 299
— and BURCH, B. H. Vagus in control of respiration, 1951, 166: 255
- BRADBURY, J. T. Rabbit ovulating factor in plant juice, 1944, 142: 487
— *See* BORASKY, R.
— *See* DURY, A.
- BRADFIELD, DOROTHY and SMITH, MARGARET C. Utilization of vitamin A by the dog, 1938, 124: 168
- BRADLEY, S. E.: *see* WILKINS, R. W.
- BRADSHAW, J.: *see* HARE, K.
- BRADSHAW, PHOEBE J.: *see* BEACH, E. F.
— *See* BLATHERWICK, N. R.
- BRADY, JOAN: *see* JANES, R. G.
- BRADYCARDIA: *see* HEART RATE, bradycardia
- BRADYKININ
anaphylactic, peptone shock, 1950, 163: 283
hypotensive and smooth muscle stimulating, 1949, 156: 261
pharmacology, 1949, 156: 267

BRAIN

- ablation of neocortex and mating behavior, 1939, 127: 374
- ablation of piriform amygaloid areas and hippocampi, 1941, 132: 81
- afferent auditory cortex, 1950, 162: 489
- afferent paths to the cortex, 1941, 131: 718
- anoxia, 1943, 140: 291
- auditory area, sensitivity to anoxia, 1951, 164: 748
- auditory cortex and representation of two ears, 1951, 167: 147
- B-complex deficiency, 1944, 141: 85; 1950, 161: 517
- blood vessels vasodilator innervation, in parietal cortex, 1939, 125: 218
- central connections of articular fibers, 1950, 161: 139
- cerebellar and medullary pathways in frog, 1939, 127: 232
- circulation, 1943, 140: 191
- intrinsic control, 1945, 143: 50
- isolation, in living cat, 1947, 149: 517
- protection, 1947, 151: 355
- concussion and polarizability, 1946, 146: 12
- convulsions induced by β -chlorinated amines, 1950, 160: 195
- cortical responses to stimulation of brain cell, 1941, 131: 732
- cortical stimulation, 1949, 158: 474
- cortical stimulation and duration of response, 1941, 131: 650
- damage during insulin shock, 1941, 131: 554
- DDT and electrograms, 1946, 147: 127
- direct stimulation of respiratory center, 1943, 139: 490
- energy transformation during shock, 1946, 146: 269
- exchange of radioactive and tissue potassium, 1941, 135: 152
- experimentally induced swelling and shrinkage, 1949, 157: 122
- extract, thromboplastic activity, 1942, 137: 179
- function, cerebral metabolism, 1945, 143: 47
- humoral intermediation of cell activity, 1943, 138: 776
- increased temperature and activity, 1949, 159: 1
- inhibition of cholinesterase, 1950, 160: 187
- intracranial pressure, pulmonary edema, 1948, 152: 589
- irradiated excitation and inhibition during conditioned differential tests, 1942, 136: 784
- lesions, conditioned reflexes, 1946, 147: 454
- localization of acoustic area, 1950, 160: 395
- location of heat maintenance fibers, 1948, 154: 82
- olfactory conditioned reflex and motor centers, 1938, 121: 657
- oxygen and carbon dioxide tension, 1948, 155: 191
- pathway from medial geniculate to acoustic cortex, 1946, 147: 311
- penetration of radioactive sodium and phosphorus, 1941, 132: 224
- perfusion, in living cat, 1947, 149: 517
- pulmonary effects of intracranial pressure, 1949, 158: 96

- reactivity of autonomic medullary centers, 1943, 139: 661
- recording of focal activities, 1940, 128: 489
- sodium sulfide and muscle reflexes, 1938, 123: 687
- stimulation of cerebral cortex and blood pressure, 1948, 152: 314
- strychnine, 1939, 125: 180
- thalamocortical augmentation and repetition, 1943, 138: 298
- relations, 1942, 135: 283
- relay system activity, 1943, 138: 283
- turtle, thermosensitivity, 1950, 160: 402

BRAIN CONSTITUENTS

- acetylcholine, 1944, 142: 513; 1949, 159: 247
 - drugs, 1950, 162: 469
 - electrical stimulation, 1949, 159: 251
 - of excised, 1951, 165: 365
 - physiological state, 1949, 159: 247
 - ascorbic acid level after DHA injection, 1951, 167: 123
 - B complex deficiency and water, 1944, 141: 85
 - blood gases, 1949, 156: 149
 - chemical changes in injury and anoxia, 1941, 132: 770
 - cholinesterase in, 1948, 153: 436; 1948, 154: 497; 1948, 155: 56; 1948, 155: 60; 1949, 157: 82
 - concussion and chemical constituents, 1949, 156: 129
 - electrolyte content, 1949, 156: 325
 - electrolyte pattern of body, 1949, 156: 163
 - low atmospheric pressure, 1944, 142: 63
 - seizures, 1949, 156: 164
 - extracellular electrolytes, 1940, 128: 684:
 - free and bound potassium, 1948, 155: 141
 - freezing and dehydrogenases, 1949, 157: 465
 - hemorrhage and tissue metabolites, 1946, 147: 446
 - ions and water, 1950, 160: 98
 - lithium, 1950, 163: 633
 - normal dry weight, 1949, 157: 125
 - penetration of, radioactive chlorine, 1941, 134: 86
 - phosphate esters, stimulation, 1950, 160: 203
 - phosphorous, 1951, 164: 5
 - potassium in normal and adrenalectomized rats, 1951, 164: 23
 - in stress, 1948, 152: 423
 - radioactive potassium, 1941, 132: 482
 - sympathomimetic substance, 1948, 152: 324
 - thromboplastic suspensions, 1950, 162: 293
 - water, diet and exercise, 1940, 128: 539
 - in intoxication, 1942, 136: 45
 - water and electrolyte distribution, 1949, 159: 61
 - water, fat, and electrolyte, 1950, 161: 279
- BRAIN CORTEX: *see* CEREBRAL HEMISPHERES, CORTEX
- BRAIN METABOLISM
- acetylcholine formation, 1939, 127: 382; 1950, 163: 605
 - antipyrene, 1949, 157: 287
 - blood flow, 1946, 147: 517
 - diathermy, 1942, 136: 178
 - during electronarcosis, 1943, 139: 171
 - during hypoglycemia, 1939, 125: 578

BRAIN METABOLISM

- enzymatic conversion of cyanide to thiocyanate, 1948, 153: 351
- factors affecting, 1942, 137: 327
- fever, 1949, 157: 283
- following anoxia and hemorrhage, 1945, 144: 683
- glycolysis during growth, 1944, 142: 545
- in emotional excitement and sleep, 1948, 154: 73
- in insulin hypoglycemia, 1941, 132: 640
- in monkey, 1945, 143: 33
- infant, respiratory quotient of succinate, pyruvate, and fructose, 1939, 125: 603
- of fat, 1942, 137: 436
- of glucose and pyruvate after anoxia, 1945, 144: 334
- of methanol, 1950, 163: 617
- of perfused, 1943, 140: 190
- oxygen consumption, 1941, 132: 294; 1941, 132: 455
- adrenocortical hormones, 1939, 127: 712
- drugs, 1941, 132: 294
- in living cat, 1947, 149: 528
- in various media, 1939, 127: 297
- inhibition, by drugs, 1949, 157: 301
- optimum pH, 1939, 127: 293
- parts, 1941, 132: 294
- pH, 1941, 132: 567
- slices, Ca, Mg, phenobarbital, 1951, 166: 219
- phosphate turnover, 1942, 138: 176; 1951, 165: 251
- potassium and acetylcholine synthesis, 1944, 142: 514
- respiratory metabolism, 1939, 125: 601
- during development, 1942, 136: 600
- serum proteins, 1942, 135: 321
- respiratory pathways, 1949, 157: 468
- respiratory quotient, 1942, 137: 437
- after anoxia, 1945, 144: 340
- slices, salicylates, 1951, 164: 727
- sodium turnover, 1951, 167: 336
- uptake of radioactive bromine, 1941, 134: 109
- BRAIN STEM**
- cholinesterase, 1947, 148: 677
- cortical responses to stimulation, 1941, 131: 732
- localization of respiratory centers, 1941, 134: 192
- oxidation and glycolysis, 1944, 141: 515
- respiration during development, 1942, 136: 601
- site of pneumotoxic center, 1939, 127: 656
- stimulation of, and reversals of vasomotor reactions, 1942, 135: 338
- thresholds of stimulation, 1938, 121: 708
- BRAIN, BLOOD FLOW:** *see* CEREBRAL BLOOD FLOW
- BRAND, E. D., BRITTON, S. W. and FRENCH, C. R.**
- Gravity shock and resistance factors, 1951, 165: 539
- BRANDT, J. L. and GRUHN, J. G.** Renin and renal function, 1948, 153: 458
- BRANDT, W. L., DUBIN, W. M. and SAPIRSTEIN, L. A.**
- Salt hypertension, 1951, 164: 73
- BRANNON, E. S.:** *see* WARREN, J. V.
- BRASSFIELD, C. R.** Hydrogen ion effects upon saliva flow, 1945, 144: 43
- and BEHRMANN, V. G. Pulmonary ventilation and pH of blood and urine, 1941, 132: 272
- *See* GESELL, R.
- BRAUER, R. W. and HARDENBERGH, ESTHER.** Esterase activity of blood plasma of dog, 1947, 150: 746
- and PESSOTTI, RITA L. BSP uptake and excretion in the dog, 1950, 162: 565
- and ROOT, MARY A. Liver and plasma esterase in the dog, 1947, 149: 611
- BRAUN, GENEVIEVE L.:** *see* HELLEBRANDT, FRANCES A.
- BRAUN-MENENDEZ, E.:** *see* HUIDOBRO, F.
- BRAZDA, F. G. and RICE, J. C.:** Response of surviving tissues to quinidine, 1942, 136: 386
- BREATH HOLDING**
- alveolar gas changes, 1948, 152: 674
- oxygen, altitude, exercise, 1947, 150: 142
- oxyhemoglobin reduction time, 1946, 147: 632
- as measure of fitness, 1946, 147: 636
- BRECHER, G.:** *see* WAXLER, S. H.
- BRECHER, G. A. and OPDYKE, D. F.:** Interatrial septal defects and pressures, 1950, 162: 507
- *See* OPDYKE, D. F.
- BRECKENRIDGE, C. G. and HOFF, H. E.:** Medullary regulation of respiration, 1950, 160: 385
- and KELLER, A. D. Sex functions—isolated pars anterior, 1948, 152: 591
- , HOFF, H. E. and SMITH, H. T. Respiration and drugs, 1950, 162: 74
- *See* HOFF, H. E.
- *See* HUGGINS, R. A.
- *See* KELLER, A. D.
- BRENIZER, A. G., JR.:** *see* COPE, O.
- BREWER, G.** Plasma potassium level and metabolic activity, 1940, 129: 245
- Statistical study of cobalt polycythemia, 1940, 128: 345
- , LARSON, P. S. and SCHROEDER, A. R. Epinephrine and blood potassium, 1939, 126: 708
- *See* CHAMBERS, A. H.
- *See* DAVENPORT, H. W.
- BREWER, W.:** *see* TODD HUNTER, E. N.
- BRICKER, J. W.:** *see* GESELL, R.
- BRIDGER, C. E., SMATHERS, S. E., COTTERMAN, C. W., DAMERON, J. T. and LITTLE, J. M.** Diuretic effect of gelatin solutions, 1944, 142: 246
- BRIDGES, W. C.:** *see* GREEN, D. M.
- BRIDGMAN, C. S. and SMITH, K. U.** Absolute threshold of vision and optic cortex, 1942, 136: 463
- BRIGGS, A. P.:** *see* HAMILTON, W. F.
- BRIGGS, H. M.:** *see* DINNING, J. S.
- BRIGHTNESS**
- form perception, 1948, 155: 409
- BRILL, H. H.:** *see* WALTON, R. P.
- BRINKHOUS, K. M. and WALKER, S. A.** Prothrombin and fibrinogen in lymph, 1941, 132: 666
- , SMITH, H. P., WARNER, E. D. and SEEGER, W. H. Inhibition of blood clotting, 1939, 125: 683
- *See* BUCKWALTER, J. A.
- *See* GRAHAM, J. B.
- *See* WARNER, E. D.
- BRISKIN, H. L., STOKES, F. R., REED, C. I. and MRAZEK, R. G.** Blood pressure effects of vitamin D and other sterols, 1943, 138: 385
- BRITTON, S. W.:** Acceleratory effects and Marey "Law", 1949, 156: 1

- and COREY, E. L. Pancreas and adrenal in carbohydrate regulation, 1941, 131: 790
- and FRENCH, C. R. Conditions modifying resistance to G, 1949, 156: 137
- and KLINE, R. F. Adrenal extract and augmented activity in sloth, 1939, 127: 127
- and KLINE, R. F. Desoxycorticosterone compared to whole adrenal extract, 1941, 133: 503
- and KLINE, R. F. Emotional reactions in tropical animals, 1939, 125: 730
- and KLINE, R. F. Factors in anoxia, 1945, 145: 190
- , COREY, E. L. and STEWART, G. A. Alleviation of acceleratory forces, 1946, 146: 33
- , KLINE, R. F. and SILVETTE, H. Blood chemistry in the adrenalectomized sloth, 1938, 123: 701
- , PERTZOFF, V. A., FRENCH, C. R. and KLINE, R. F. Effects of G forces and protective aids, 1947, 150: 7
- , SILVETTE, H. and KLINE, R. F. Adrenal insufficiency in the monkey, 1938, 123: 705
- , SILVETTE, H. and KLINE, R. F. Carbohydrates and electrolytes after adrenalectomy, 1938, 122: 446
- See BRAND, E. D.
- See COREY, E. L.
- See PERTZOFF, V. A.
- See SILVETTE, H.
- See VAN MIDDLESWORTH, L.
- BROBECK, J. R. Factors in regulation of energy exchanges, 1945, 143: 1
- BROD, J. and SIROTA, J. H. Emotional stress and renal function, 1949, 157: 31
- BRODIE, B. B.: see BERGER, E. Y.
- See STEELE, J. M.
- BRODIE, D. C. see HIESTAND, W. A.
- BRODMANN AREAS: see CEREBRAL HEMISPHERES, CORTEX, areas 4 and 6
- BRODSKY, W. A.: see RAPOPORT, S.
- BRODY, D. A., WERLE, J. M., MESCHAN, I. and QUIGLEY, J. P. Intralumen pressures of digestive tract, 1940, 130: 791
- See WERLE, J. M.
- BRODY, E. B. Development of homeothermy in suckling rats, 1943, 139: 230
- Litter size, growth and heat production of young rats, 1942, 138: 180
- BRODY, S.: see SADHU, D. P.
- BROFMAN, B. L.: see GREEN, H. D.
- BROGDON, ELIZABETH: see HELLEBRANDT, FRANCES A.
- BROKAW, R. and PENROD, K. E. Bromsulphalein removal rates, 1949, 159: 365
- BROMACETATE
 - renal electrolyte metabolism, 1951, 167: 208
- BROMIDE
 - K, excretion, 1942, 138: 96
 - Na, acetylcholine metabolism, 1947, 151: 346
 - body chloride after administration, 1939, 127: 338
 - intracisternal injection, 1945, 143: 85
 - measurement of intracellular water, 1950, 162: 318
 - permeability of blood-spinal fluid barrier, 1945, 143: 87
- BROMINE
 - of serum, concentration and distribution, 1942, 137: 109
 - permeability of blood-spinal fluid barrier, 1945, 143: 87
 - radioactive, absorption of from intestinal tract, 1938, 124: 667
 - penetration of blood-cerebrospinal barrier, 1943 140: 58
 - uptake by thyroid, 1941, 134: 109
 - reabsorption by kidney, 1950, 163: 436
- N - (2 - BROMOETHYL)N - ETHYL - 1 - NAPHTHALENE-METHYLAMINE
 - inhibitory effect on brain cholinesterase, 1950, 160: 192
- BROMSULFALEIN
 - choleretic agents and excretion, 1948, 154: 510
 - clearance, 1949, 156: 228
 - as measure of liver function, 1950, 163: 59
 - excretion after liver damage, 1951, 165: 680
 - in bile, 1948, 154: 211; 1948, 154: 506
 - in estimation of hepatic mass, 1948, 152: 42
 - hepatic uptake and excretion, 1950, 162: 565
 - liver tests in assay of lipocaic, 1938, 124: 642
 - recovery of, from bile, 1947, 150: 301
 - removal of from blood, 1948, 155: 286
- BRONCHI
 - changes of calibre during respiration, 1940, 128: 279
- BRONCHIAL ARTERIES
 - blood flow, 1947, 148: 648
- BRONK, D. W., TOWER, S. S., SOLANDT, D. Y. and LARRABEE, M. G. Trains of impulses through sympathetic ganglion, 1938, 122: 1
- See PITTS, R. F.
- BROOKHART, J. M. Respiratory effects of localized medulla stimulation, 1940, 129: 709
- and BOYD, T. E. Intrathoracic and cardiac filling pressures, 1947, 148: 434
- and DEX, F. L. Hypothalamic lesions and masculine sexual behavior, 1941, 133: 551
- See LEWIS, L. J.
- See PATRAS, MARY C.
- BROOKS, C. McC. Activity and experimentally produced obesity, 1946, 147: 708
- Mechanism of coitus-excitation of pituitary, 1938, 121: 157
- Respiratory quotient in hypothalamic obesity, 1946, 147: 727
- and GERSH, I. Vascular supply of rabbit's hypophysis, 1940, 131: 247
- and LAMBERT, E. F. Gonadotropic functions of hypophysis, 1939, 125: 57
- and LAMBERT, E. F. Weight gain during hypothalamic obesity, 1946, 147: 695
- , LOCKWOOD, R. A. and WIGGINS, M. L. Hypothalamic lesions and eating habits, 1946, 147: 735
- , MARINE, D. N. and LAMBERT, E. F. Food-feces ratios and O₂ consumption in obesity, 1946, 147: 717

- BROOKS, C. McC., ORIAS, O., GILBERT, J. L., SIEBENS, A. A., HOFFMAN, B. F. and SUCKLING, E. E. Excitability cycle of mammalian auricle, 1950, 163: 469
- , ORIAS, O., GILBERT, J. L., SIEBENS, A. A., HOFFMAN, B. F. and SUCKLING, E. E. The vulnerable period of auricular excitability, 1951, 164: 301
- See HOFFMAN, B. F.
- See LEONARD, W. E.
- See ORIAS, O.
- See SUCKLING, E. E.
- BROOKS, MATILDA M. Infrared spectroscopic studies on hemoglobin, 1941, 132: 311
- BROOKS, V. B., RANSMEIER, R. E. and GERARD, R. W. Drugs on brain metabolism and activity, 1949, 157: 299
- BROUHA, L.: see EDWARDS, H. T.
- See EGAÑA, E.
- See METHENY, ELEANOR
- See WALD, G.
- BROWER, T. D.: see EICHELBERGER, LILLIAN
- BROWMAN, L. G. Diet and reproductive performance, 1939, 125: 335
- Modified spontaneous activity, 1944, 142: 633
- BROWN ADIPOSE TISSUE
- metabolic activity, 1941, 133: 56
- respiration, 1941, 133: 56
- enzyme content, 1941, 133: 62
- respiratory quotient, 1941, 133: 59
- BROWN FAT: see BROWN ADIPOSE TISSUE
- BROWN, C. S., HARDENBERGH, ESTHER and TULLIS, J. L. Lymph composition following X-radiation, 1950, 163: 668
- BROWN, E. B., JR.: see CAMPBELL, G. S.
- See HOFFMAN, C. E.
- BROWN, ELLEN and LANDIS, E. M. Effect of local cooling on capillary endothelium, 1947, 149: 302
- BROWN, F. R.: see NEWBURGER, R. A.
- BROWN, FRANCES C.: see SMITH, D. C.
- BROWN, G. M.: see BOYD, E. M.
- BROWN, L. T.: see OGDEN, E.
- BROWN, R. A.: see CAMPBELL, C. J.
- BROWN, R. C.: see GESELL, R.
- BROWN, R. V. Action of water moccasin venom, 1940, 130: 613; 1941, 134: 202
- BROWNE, J. S. L.: see HOWLETT, J.
- See KARADY, S.
- See ROSE, B.
- BROWNELL, KATHARINE A., HARTMAN, F. A. and LIU, T. Y. Effects of adrenal secretion, 1951, 167: 605
- See HARTMAN, F. A.
- See SPOOR, H. J.
- BROZEK, J.: see KEYS, A.
- See TAYLOR, H. L.
- BRUCE, R. A.: see KOCHAKIAN, C. D.
- BRUCER, M., HERMAN, GLORIA L. and SWANN, H. G. Cardio-respiratory events in anoxia, 1950, 160: 138
- BRUGER, M. and MEMBER, S. Excretion of iodine in the saliva, 1943, 139: 212
- BRUHN, J. M. Heat production and water metabolism, 1942, 135: 572
- BRUNER, H. D. Leukocytosis after parenteral liver extract, 1939, 127: 58
- and SCHMIDT, C. F. Blood flow in bronchial artery, 1947, 148: 648
- , CLARK, J. K. and BARKER, H. G. Renal circulation and P_{50} , 1951, 164: 618
- , VAN DE ERVE, J. and CARLSON, A. J. Blood picture of rats from birth, 1938, 124: 620
- BRUNISH, VIRGINIA H., McWILLIAMS, H. B., MASON, G. D., ADAMS, A. D., JR. and ERSHOFF, B. H. Vitamin imbalance in reduced caloric intake, 1947, 150: 551
- BRUNN, F. Water balance of frogs, 1943, 140: 20
- BRUNNER'S GLANDS
- response to secretin, 1939, 128: 122
- BRUSH, MIRIAM K.: see BOUTWELL, R. K.
- BRUST, M.: see SAMUELS, A. J.
- BRYAN, A. R.: see HUGGINS, R. A.
- BRYAN, W. L. and MASON, K. E. Vitamin E deficiency in the mouse, 1940, 131: 263
- BRYSON, M. J.: see REINECKE, R. M.
- BSP: see BROMSULFALEIN
- BUBBLE TECHNIC
- for measuring gas tension in blood, 1950, 160: 164
- BUCCIERO, MARY C. and ORTEN, J. M. Production of polycythemia in rat, 1948, 154: 513
- BUCHANAN, A. R. and ROBERTS, J. E. Intraperitoneal injections of ergotoxine, 1948, 155: 64
- , WITT, J. A., ROBERTS, J. E. and MASSOPUST, L. C., JR. Ergotoxine hyperthermia, 1950, 163: 62
- See HOLTKAMP, D. E.
- See ROBERTS, J. E.
- BUCHER, GLADYS R. and ANDERSON, A. Uropepsin excretion, 1948, 153: 454
- and IVY, A. C. Inadequacies of double histamine test for pepsin secretion, 1941, 132: 654
- and IVY, A. C. Uropepsin in urine after gastrectomy, 1947, 150: 415
- , ANDERSON, C. E. and ROBINSON, C. S. Ion transfer by the intestine, 1950, 163: 1
- , IVY, A. C. and GRAY, J. S. Pepsin response to histamine and pilocarpine, 1941, 132: 698
- See GRAY, J. S.
- BUCK, DOROTHY M.: see FAY, MARION
- BUCKWALTER, J. A., BLYTHE, W. B. and BRINKHOUS, K. M. Platelets and prothrombin utilization, 1949, 159: 316
- BUELL, MARY V. and TURNER, ELEANOR Cation distribution in muscle after adrenalectomy, 1941, 134: 225
- BUFFER NERVES: see AORTIC NERVES
- BUFFER REFLEXES
- cardiovascular control by hypothalamus, 1941, 134: 359
- tetraethylammonium, 1949, 157: 160
- BUGEL, H. J.: see SCOTT, V. B.

BULBAR EXCITABILITY

in concussion, 1946, 146: 345

BULGER, H. A.: *see* HOLDEN, R. F., Jr.

BULL: *see* CATTLE

BUMGARDNER, J. I.: *see* LITTLE, J. M.

BUNDE, C. A. and HELLBAUM, A. A. Properties of the gonadotropic antagonist, 1939, 125: 290

— *See* LACKEY, R. W.

— *See* MUIRHEAD, E. E.

BUNNELL, I. L. and GRIFFITH, F. R., Jr. Age and calorogenic response to adrenaline, 1943, 138: 669

— *See* KINGDON, CLARA L.

BUNTING, H.: *see* PEARSON, O. H.

BURCH, B. H.: *see* BOZLER, E.

BURCH, G. E. and SODEMAN, W. A. Regional relationships of water loss in man, 1943, 138: 603

—, COHN, A. E. and NEUMANN, C. Spontaneous variations in volume of finger tip, etc., 1942, 136: 433

—, MYERS, H. L., PORTER, R. R. and SCHAFER, N. Water loss from skin of foot of trench foot subjects, 1946, 146: 370

— *See* MAYERSON, H. S.

— *See* NEUMANN, C.

BURCH, J. C.: *see* DIAZ, J. T.

BURCHELL, H. B.: *see* TAKARO, T.

BURDICK, F. D.: *see* PRATT, E. B.

BURDICK, H. O. Induced ovulation in mouse as test for pregnancy, 1946, 145: 387

— and WHITNEY, RAE. Induced ovulation in mice, 1941, 132: 405

BURGET, G. E.: *see* GARDNER, J. W.

BURKHARDT, W. L.: *see* SCHWERMA, H.

BURLINGAME, P., LONG, J. A. and OGDEN, E. Blood pressure responses in fetal rat, 1942, 137: 473

BURMESTER, B. R.: *see* SCHABLE, P. J.

BURN SHOCK: *see* SHOCK, BURN

BURNS

azotemia following and thermal injury, 1947, 148: 366

blood histamine level, gastric analysis, and ulceration, 1946, 145: 487

cardiovascular changes, 1944, 142: 366

composition of lymph, 1944, 142: 284

gastro-intestinal activity, 1942, 136: 36

metabolism changes, 1945, 144: 661

muscular activity and bleeding volume in shock, 1946, 146: 367

of heart, injury potential, 1946, 145: 516

standardized scald of rats, 1947, 150: 428

therapeutic agents, 1944, 142: 374

BURRETT, J. B. Sensitization of denervated heart to adrenaline, 1940, 131: 409

BURTON, A. C. Physical equilibrium of blood vessels, 1951, 164: 319

— Temperature regulation and blood-flow in finger, 1939, 127: 437

— and TAYLOR, R. M. Vascular tone in regulation of body temperature, 1940, 129: 565

—, SCOTT, J. C., MCGLOONE, B. and BAZETT, H. C. Climate and heat exchanges, 1940, 129: 84

— *See* HEAGY, F. C.

— *See* NICHOL, J. T.

BUSCHKE, W.: *see* FRIEDENWALD, J. S.

BUSEY, J.: *see* BLOOM, W. L.

BUSHEY, MARIAN S.: *see* VISSCHER, M. B.

BUSSABARGER, R. A., FREEMAN, S. and IVY, A. C. Osteoporosis after gastrectomy in puppies, 1938, 121: 137

1,2-BUTANEDIOL

taste sensitivity, 1951, 165: 249

BUTCHER, E. O. Irritants and hair growth, 1940, 129: 553

— Oxygen consumption of skin, 1943, 138: 408

BUTLER, D. B., HANDS, A. P. and IVY, A. C. Liver extract and gastric secretion, 1943, 139: 325

BUTLER, R.: *see* DINNING, J. S.

BUTLER, R. E.: *see* HAMILTON, W. F.

BUTTER

fat, survival on a pure diet of, 1946, 147: 13

nutritive value, 1947, 148: 47

N-BUTYL BIS(β -CHLOROETHYL)AMINE

convulsant activity, 1950, 160: 197

inhibition of brain cholinesterase, 1950, 160: 192

BUTYRATE

acetylcholine sensitivity of muscle, 1946, 145: 420

Na, absorption, 1942, 136: 712; 1943, 140: 44

BYER, E., TOTTH, L. A. and ASHMAN, R. Electrocardiogram and ventricular temperature changes, 1947, 149: 264

— *See* ASHMAN, R.

— *See* CHURNEY, L.

BYER, FRANCES T.: *see* EATON, A. G.

BYER, J.: *see* HARPUDE, K.

— *See* STEIN, I. D.

BYERS, S. O. and FRIEDMAN, M. Urate in cerebrospinal fluid, 1949, 157: 394

—, FRIEDMAN, M. and GARFIELD, M. M. Role of liver and kidney in blood uric acid and allantoin, 1947, 150: 677

— *See* FRIEDMAN, M.

BYRNES, W. W., MEYER, R. K. and FINERTY, J. C. Estrogen-progesterone on pituitary, 1951, 164: 26

BYWATERS, E. G. L.: *see* ZELLER, J. W.

CABBAGE DIET

iodine content of hyperplastic goiter, 1940, 128: 568

CADDELL, H. M.: *see* REMINGTON, J. W.

CADMIUM CHLORIDE: *see* CHLORIDES

CAFFEINE

activity of adenosinetriphosphatase, 1948, 152: 86

brain respiration, 1949, 157: 308

cardiovascular system, as determined by radioactive krypton, 1945, 144: 166

cerebral blood flow, 1943, 138: 426

creatinuria after, 1942, 138: 79

denervated muscles, 1949, 158: 142

digestive enzymes, 1943, 139: 343

diuresis due to, 1947, 148: 261

gastric secretion, 1944, 141: 459

See page iii for guide to use of index

AFFEINE

- heart rate, 1944, 142: 694
- oxygen consumption of active muscle, 1939, 126: 202
- recovery from fatigue, 1942, 136: 83
- respiration at high altitude, 1949, 156: 55
- synergistic effect with histamine upon gastric secretion, 1944, 142: 109
- urea and ammonia excretion, 1945, 145: 116
- urea formation, 1946, 147: 428
- urine secretion in chicken, 1940, 128: 595
- uropepsin excretion, 1948, 153: 454

CAHOON, D. H., MICHAEL, I. E. and JOHNSON, V.
Respiratory modification of cardiac output, 1941, 133: 642

CAIN, J. C.: *see* BOLLMAN, J. L.

CAJORI, F. A. and VARS, H. M. Chloroform anesthesia and serum amylase, 1938, 124: 149

— *See* RHODES, J. E.

CALABRESI, M. and GEIGER, A. J. Potential changes in injured cardiac muscle, 1942, 137: 440

— *See* CRISMON, J. M.

CALCIUM

- accommodation of nerve, 1940, 130: 491
- acidosis and, in muscle, 1951, 167: 669
- adrenalectomy and muscle, 1941, 134: 227
- anaerobic glycolysis in liver slices, 1946, 147: 509
- antagonistic effect of K and, in frog heart, 1942, 136: 352
- balance, gastrectomy, 1938, 121: 144
- blood coagulation, 1938, 121: 488; 1940, 131: 455; 1948, 152: 389
- blood pressure, 1939, 127: 722
- cardiac contractility, 1951, 165: 525
- cellular respiration, 1938, 122: 402
- changes in submaxillary glands, 1941, 135: 167
- citric acid, nephrectomy and excretion, 1950, 160: 335
- clotting of hemophilic plasma, 1939, 126: 670
- coagulant action of trypsin, 1939, 126: 662
- coagulant effect of snake venom on plasma, 1941, 134: 614
- consumption in army training centers, 1945, 144: 590
- coronary vessels, 1938, 124: 155
- deficiency, tetany due to, 1942, 137: 461
- dietary levels and parathyroid hormone, 1939, 125: 745
- diffusion, in the peritoneum, 1939, 126: 68
- diuretic effect, 1941, 134: 729
- electrocardiogram, 1939, 125: 167; 1939, 126: 724
- frog heart, 1940, 130: 730
- gastric acidity, 1942, 135: 498
- gastric secretion, 1941, 134: 27
- high and low P, parathyroid gland, 1939, 125: 745
- in traumatic shock, 1943, 139: 299
- intake, bone growth, 1946, 146: 594
- reproduction and length of life, 1945, 144: 718
- intestinal absorption, 1938, 121: 475
- intestinal secretion, 1949, 158: 132
- magnesium deficiency syndrome, 1951, 166: 408

mammalian heart, 1942, 136: 333

metabolism, ion exchange resins, 1950, 160: 268

metals, 1938, 124: 230

permutit Z feeding, 1951, 164: 695

sterols, 1942, 135: 577

thyroid and parathyroid hormones, 1942, 135: 421

metabolism of spermatozoa, 1943, 138: 744

nerve-free smooth muscle of chick amnion, 1940, 131: 527

of blood, evisceration, 1950, 160: 250

of scorbutic guinea pigs, 1940, 130: 310

prothrombin time, 1945, 145: 69

of cartilage, 1951, 166: 331

of cerebrospinal fluid, neuromuscular response to, 1938, 121: 719

spinal reflexes, 1940, 131: 67

of gastric juice, 1941, 133: 542

acidity and buffer value, 1941, 132: 467

of genital tract, 1940, 130: 290

of muscle, stimulation, 1938, 121: 601

of muscle and skin, splenectomy, 1950, 160: 298

of plasma, 1949, 156: 325

DCA and ACTH, 1950, 160: 223

during shock, 1947, 149: 53

ECG, 1942, 136: 336

gravity shock, 1944, 141: 166

prothrombin concentration in, 1947, 148: 213

whole-body x-irradiation, 1951, 164: 454

of serum, adrenal gland, parathyroid, 1940, 128: 580

citric acid, urinary calcium, 1950, 160: 330

excess vitamin D and vitamin A, 1947, 149: 324

✓ excitement, 1940, 129: 756

inhibition of gastric secretion, 1941, 132: 460

intestinal secretion, 1949, 158: 129

maintenance by parathyroid gland, 1944, 142: 104

on special diets, 1939, 125: 742

renal insufficiency, parathormone, 1940, 129: 243

serum phosphate, 1938, 124: 234

single massive dose of vitamin D, 1947, 149: 336

splenectomy, 1950, 160: 297

thyroid, 1948, 152: 104

thyroparathyroidectomy, vitamin D, 1950, 160: 341

urinary calcium, 1949, 159: 543

of serum and cells in pregnancy, 1942, 137: 386

of tissues affected by excess vitamin D and vitamin A, 1947, 149: 325

of urine, citric acid, serum calcium, 1950, 160: 330

during excitement, 1940, 129: 761

optimum and toxicity level in rats, 1951, 166: 210

oxygen consumption of brain slices, 1951, 166: 219

parathyroid and renal reabsorption of, 1948, 155: 42

parathyroid effect independent of kidneys, 1944, 142: 105

permeability of lens capsule, 1939, 126: 136

phosphorus ratio, cobalt polycythemia, 1940, 130: 375

production of fibrin, 1944, 142: 583

prothrombin, blood coagulation, 1940, 130: 579

- quantitative relation between, and prothrombin, 1947, 148: 211
- radioactive, excretion, 1949, 159: 542
- excretion in milk, 1950, 162: 579
- metabolism, 1951, 166: 387
- ✓ respiration of brain cortex, 1949, 135: 313
- resting potential of nerve, 1948, 153: 102
- retention, single massive dose of vitamin D, 1947, 149: 336
- salts, inhibition of gastric secretion, 1941, 132: 460
- renal excretion, 1949, 158: 205
- ✓ survival in cold, 1947, 151: 366
- therapy, skull bones, 1941, 133: 617
- thrombin formation, 1938, 123: 341
- turtle heart, 1943, 138: 760; 1948, 153: 402
- urinary excretion, 1949, 158: 214; 1949, 159: 542
- uterine motility, 1938, 123: 752
- CALCIUM CARBONATE**
- iron retention, 1942, 137: 708
- CALCIUM CHLORIDE:** *see* CHLORIDES
- CALCIUM PANTOTHENATE:** *see* PANTOTHENIC ACID
- CALCIUM PHOSPHATE**
- colloidal, fate of, 1938, 121: 589
- of blood, 1938, 121: 589
- concentration and prothrombin time, 1947, 150: 383
- CALCIUM-FIBRIN:** *see* FIBRIN, Ca-
- CALDER, D. G.:** *see* RIEGEL, CECILIA
- CALF**
- alloxan administration, 1949, 156: 355
- blood flow, 1948, 152: 502
- blood histamine during anaphylaxis, 1939, 127: 71
- cerebrospinal fluid pressure and vitamin A deficiency, 1940, 130: 686
- metabolism, 1950, 162: 434
- pancreatic diabetes, 1949, 156: 349
- permeability of synovial membrane, 1941, 132: 150
- terminal cerebrospinal fluid pressures, and vitamin A, 1941, 134: 436
- thyroid secretion rate, 1947, 150: 691
- vitamin B of whole blood, 1950, 163: 79
- CALGON**
- absorption in alimentary tract, 1942, 135: 330
- CALLICREIN**
- inactivators, 1944, 142: 541
- production of shock, 1944, 142: 519
- CALLISON, ELIZABETH C. and KNOWLES, VIRGINIA H.**
- Liver vitamin A reserves and signs of their deficiency, 1945, 143: 444
- CALORIES**
- concentration, food intake, 1949, 158: 184
- expenditure, on treadmill walking, 1946, 145: 394
- intake, by men in army training center, 1945, 144: 590
- experimental renal hypertension, 1950, 160: 31
- fertility, 1951, 167: 375
- hair growth, 1940, 129: 555
- quality of protein, 1949, 157: 141
- weight gain, 1945, 143: 2
- restriction, adrenal response to ovariectomy, 1949, 157: 193
- blood picture, 1947, 151: 525
- chronic, physiological effects associated with, 1948, 154: 517
- growth, fertility, and longevity, 1947, 150: 511
- hypertension, 1951, 166: 528
- influence on blood, 1946, 147: 423
- CALVIN, D. B.:** *see* MULLIN, F. J.
- CAMBARUS CLARKII**
- action potential of single nerve fibers from claw, 1940, 130: 393
- anoxia and peripheral nerves, 1946, 147: 78
- CAMEL (ARABIAN)**
- blood sugar level, 1950, 162: 438
- CAMERON, GLADYS and CHAMBERS, R.** Renal function in early human fetus, 1938, 123: 482
- *See* CHAMBERS, R.
- CAMMER, L. and GRIFFITH, F. R., JR.** Adrenaline and metabolism of peripheral tissues, 1939, 125: 699
- CAMPBELL, B., MARK, V. H. and GASTEIGER, E. L.** Retrograde degeneration, 1949, 158: 457
- CAMPBELL, C. G.:** *see* FRIEDMAN, S. M.
- CAMPBELL, C. J., McCABE, MARGARET M., BROWN, R. A. and EMMETT, A. D.** Crystalline vitamin B₆ and blood cellular elements, 1945, 144: 348
- *See* WEISS, P.
- CAMPBELL, D. H.:** *see* FEIGEN, G. A.
- CAMPBELL, G. S. and HARVEY, R. B.** Postural changes in vital capacity, 1948, 152: 671
- and VISSCHER, M. B. Vagotomy and pulmonary edema, 1949, 157: 130
- , BROWN, E. B., JR. and GOLLAN, F. Plasma phosphate and hyperventilation, 1948, 154: 185
- , HADDY, F. J., ADAMS, W. L. and VISSCHER, M. B. Pulmonary effects of intracranial pressure, 1949, 158: 96
- *See* HADDY, F. J.
- CAMPBELL, H. L.** Seasonal changes in food consumption and growth of rats, 1945, 143: 428
- NaCl as adjunct to whole wheat and milk diet, 1946, 147: 340
- and SHERMAN, H. C. Calcium intake and complete life cycle of rat, 1945, 144: 717
- CAMPBELL, J.** Insulin, liver fat and anterior pituitary extract, 1946, 147: 742
- and KEENAN, H. C. Pituitary extracts and increase of liver fat, 1940, 131: 27
- *See* PEN, D. F.
- CAMPBELL, KATHRYNE H.:** *see* RICHTER, C. P.
- CAMPBELL, W. N., SOKALCHUK, A. and PENMAN, R.** Validity of T-1824 in plasma volume determinations, 1948, 152: 563
- CAMPBELL, W. W.:** *see* GREENBERG, D. M.
- CAMPBOR**
- acetylcholine of brain, 1950, 162: 472
- acetylcholine metabolism, 1947, 151: 346
- CAMPOLON:** *see* LIVER, ADMINISTRATION OF
- CANAVARRO, K. DE S.:** *see* WIGGERS, H. C.
- CANEPA, J. F., GROSSMAN, M. I. and IVY, A. C.** Lipotropic factors, 1949, 156: 387
- CANNON, W. B. and HAIMOVICI, H.** Sensitization of motoneurons by partial denervation, 1939, 126: 731

- CANNON, W. B. and LISSÁK, K. Evidence for adrenaline in adrenergic neurones, 1939, 125: 765
 — and ROSENBLUETH, A. Late stages of neuromuscular transmission, 1940, 130: 219
 — See ROSENBLUETH, A.
 — See SIMEONE, F. A.
- CANTAROW, A. and HAURY, V. G. Diffusion of calcium, etc., into the peritoneum, 1939, 126: 66
 — and MILLER, L. L. Phosphatase in bile, 1948, 153: 444
 —, WIRTS, C. W., SNAPE, W. J. and MILLER, L. L. Bile excretion, 1948, 154: 211
 —, WIRTS, C. W., SNAPE, W. J. and MILLER, L. L. Rate of biliary excretion, 1948, 154: 506
 — See WIRTS, C. W.
- CANTHARIDES
 hair growth, 1940, 129: 554
- CANZANELLI, A. and RAPPORT, D. O₂ consumption of tissue in various media, 1939, 127: 296
 —, GREENBLATT, M., ROGERS, GERTRUDE A. and RAPPORT, D. pH changes and in-vitro consumption of tissue, 1939, 127: 290
 —, GUILD, RUTH and RAPPORT, D. Adenosine phosphorylation by kidney, 1950, 162: 168
 —, GUILD, RUTH and RAPPORT, D. Tourniquet shock in the rabbit, 1945, 143: 97
 —, GUILD, RUTH and RAPPORT, D. Ultraviolet and nucleic acid derivatives, 1951, 167: 364
 —, RAPPORT, D. and GUILD, RUTH. Thyroid, pyrimidines and liver regeneration, 1949, 157: 225
 —, ROGERS, GERTRUDE A., DWYER, C. S. and RAPPORT, D. Blood serum and tissue respiration, 1942, 135: 316
 —, ROGERS, GERTRUDE A. and RAPPORT, D. Inorganic ions and respiration of brain cortex, 1942, 135: 309
 — See RAPPORT, D.
 — See STEARNS, A. W., JR.
- CAPILLARIES
 circulation, characteristics of perfusate, 1940, 130: 517
 endothelium, local cooling, 1947, 149: 305
 exchange of sodium between capillaries and tissue, 1944, 142: 412
 leakage, in traumatic shock, 1947, 148: 119
 mechanism of closure and collapse, 1940, 130: 517
 permeability, adrenal cortical extract, 1940, 129: 693
 adrenal ovarian steroids, 1941, 134: 258
 pore dimensions, 1951, 167: 13
 pressure, factors affecting control, 1947, 149: 389
 local cooling, 1947, 149: 305
 pulmonary, estimated by catheterization methods, 1948, 155: 98
 protein osmotic pressure, 1948, 152: 471
 responses to acute hemorrhage, 1944, 142: 85
 scurvy, 1947, 149: 467
- CAPILLARY PERMEABILITY
 adrenal and ovarian steroids, 1941, 134: 258
 adrenocortical hormones, 1940, 129: 693; 1941, 134: 503; 1942, 137: 69
 cholesterol, 1948, 154: 16
 cortisone, 1951, 164: 294; 1951, 166: 509
- critique of measurement with Evans blue, 1947, 151: 26
 exchange of chloride, 1949, 158: 231
 horse proteins in burn, 1943, 140: 3
 hyaluronidase, 1949, 156: 429
 in inflammation, 1951, 166: 509
 ACTH, 1951, 166: 518
 intravenously administered gelatine, 1943, 138: 495
 of iron, 1948, 153: 503
 of lipid insoluble substances, 1951, 167: 20
 of newly formed, 1946, 147: 237
 of oxygen and lipid soluble substances, 1951, 167: 40
 pore theory, 1951, 167: 13
 pulmonary, ammonium salts, 1949, 158: 2
 sodium, 1944, 142: 412
 vitamin C deficiency, 1950, 161: 283
 vitamin D, 1948, 154: 19
- CAPILLARY RESISTANCE
 in swine with bleeding disease, 1942, 138: 136
- CAPO, L. R.: see MOE, G. K.
- CAPRIC ACID
 absorption, 1943, 140: 44
- CAPROATE
 Na, absorption, 1943, 140: 44
- CAPRYLIC ACID
 absorption, 1943, 140: 44
 as substrate for perfused rat heart, 1949, 158: 272
- CAPSICUM
 hair growth, 1940, 129: 554
- CAPYBARA
 blood sugar and body temperature changes on emotional excitation, 1939, 125: 731
- CARBAMATES
 conduction block in nerve fiber, 1948, 155: 82
 dithio, inhibition of cytochrome oxidase, 1941, 131: 586
 oxygen consumption of frog muscle, 1941, 135: 244
 response to epinephrine, 1943, 140: 370
- CARBAMYLCHOLINE
 serosa and mucosa of the intestine, 1947, 148: 720
- CARBAZOLE
 muscle sensitivity to acetylcholine and potassium, 1946, 145: 611
- CARBOHYDRATE
 appetite, 1941, 131: 639
 in vitamin B deficiency, 1939, 127: 202
 thiamine deficiency, 1938, 124: 596
 balance, of lactating mammary gland, 1941, 132: 540
 common, nutritional value, 1941, 133: 29
 consumption, in army training centers, 1945, 144: 590
 dietary, experimental renal hypertension, 1949, 156: 422
 digestion, in stomach, 1941, 132: 42
 formation from threonine, 1940, 131: 252
 high intake, R.Q., 1938, 124: 246
 in tissues, adrenalectomy, 1938, 122: 446
 gravity shock, 1947, 149: 373
 intake after fat feeding, 1947, 151: 530
 vascular responses, 1941, 133: 688
 water content of organs, 1940, 128: 539

- intestinal absorption, 1940, 131: 36
 labeled, storage of fat, 1941, 132: 661
 metabolic derivatives, hypoglycemia, 1938, 124: 295
 sparing effect of previous fat-feeding, 1944, 140: 641
 specific dynamic action of, 1947, 148: 52
 stores, anterior-pituitary hormones, 1943, 140: 453
 insulin and, in depancreatized herbivora, 1947, 150: 48
 thiamin and specific dynamic action, 1943, 138: 488
 tolerance, fasting, forced-feeding, 1946, 147: 228
 nephrectomy, 1948, 153: 393
 utilization, by heart-lung preparation, 1938, 122: 542
 peripheral, following hemorrhage, 1945, 143: 585
- CARBOHYDRATE DIET (HIGH)**
 fibrillation, atrophy of denervated muscle, 1942, 135: 750
 liver glycogen maintenance, 1942, 136: 746
 pancreatic enzymes, 1943, 138: 678
 specific dynamic action, 1947, 148: 52
 survival under accelerated metabolism, 1949, 159: 33
 tolerance of man to cold, 1946, 146: 87
 tolerance, after fasting, 1946, 147: 228
- CARBOHYDRATE MEAL, HIGH**
 normal response, 1946, 145: 408
- CARBOHYDRATE METABOLISM**
 adrenal cortex, 1938, 122: 460
 adrenalectomy, 1948, 152: 603
 adrenaline, 1949, 157: 52
 after hemorrhage, 1948, 154: 107
 alloxan, 1948, 154: 94
 anoxia, 1948, 154: 423
 anterior pituitary hormones, 1938, 121: 755; 1939, 127: 463; 1942, 136: 98; 1942, 136: 131
 barbital derivatives, 1938, 122: 759
 diethyl-stilbestrol, 1942, 136: 137
 duodenal hormone, 1940, 129: 659
 fat metabolism, 1938, 124: 126
 hormones, 1941, 132: 446
 during work, 1940, 130: 602
 insulin, 1940, 131: 536
 ketones, in exercise, 1943, 138: 747
 lactation, 1941, 132: 535
 of hypophysectomized rat, thyroxin, 1938, 122: 547
 pancreatic and adrenal cortical regulation, 1939, 126: 151; 1940, 128: 552; 1941, 131: 790; 1943, 140: 100
 pantothenic acid, 1948, 153: 606
 riboflavin, 1951, 165: 604
 stilbestrol, 1942, 137: 557
 thyroxin, 1938, 122: 547
- CARBON (RADIOACTIVE)**
 acetate metabolism, 1946, 145: 557
 burning of CO to CO₂, 1950, 161: 40
 glucose utilization, 1951, 164: 207
 in carboxyl-labeled acetate, 1951, 166: 121
 methanol combustion, 1950, 163: 614
- CARBON ARC IRRADIATION**
 circulatory changes after, 1943, 139: 604
- CARBON DIOXIDE**
 absorption, in colon, 1948, 153: 475
 acetylcholine intermediation, 1944, 142: 131
 arterial, acclimatization to high altitude, 1947, 149: 573
 gravity shock, 1944, 141: 166
 blood studies in acclimatization, 1940, 129: 524
 blood transport, in anesthesia, 1948, 153: 82
 brain blood flow, 1938, 122: 212; 1943, 138: 426
 brain glucose, lactate, pyruvate and phosphates, 1949, 158: 478
 breathing, response, 1947, 149: 43
 buoyancy of body, 1942, 137: 140
 capacity of blood, 1944, 140: 485
 ether anesthesia, 1940, 131: 449
 carotid body, 1938, 121: 7
 carotid sinus reflexes in convulsions, 1942, 137: 404
 chloride excretion, 1950, 162: 668
 colorimetric determination, in respired air, 1944, 142: 747
 coronary blood flow, 1947, 148: 594
 diffusion respiration, 1951, 165: 334
 electrocardiogram, 1949, 159: 477
 elimination, at high altitude, 1946, 146: 712
 equilibration as method for determining cardiac output, 1947, 151: 245
 exchange in respiratory dead space, 1948, 155: 420
 formation from carbon monoxide, 1950, 161: 40; 1950, 162: 560
 hibernation, 1951, 167: 638
 high effects in man, 1947, 151: 479
 respiratory response of newborn, 1938, 121: 245
 hydrogen ion concentration, nervous integration, 1945, 144: 126
 insensitivity of diving animals, 1938, 124: 729
 intestinal blood flow, 1951, 167: 413
 intestinal motility, 1949, 158: 119
 lymph flow, 1938, 122: 285
 movement of between cells and serum, 1947, 148: 568
 muscle contraction, 1945, 145: 2; 1948, 153: 358
 muscle respiration, 1940, 129: 199
 narcotic level, plasma potassium and respiration, 1947, 151: 469
 of blood, acclimatization to high altitude, 1947, 149: 573
 at various altitudes, 1947, 150: 3
 during hibernation, 1951, 167: 633
 evisceration, 1950, 160: 250
 in hypothermia, 1951, 166: 58
 lymph formation, 1940, 131: 331
 of blood and tissue, hypotonic saline injection, 1949, 159: 61
 of expired gas, as measured by thermal conductivity method, 1946, 147: 221
 of genital tract, 1940, 130: 290
 of gut fluids during absorption, 1945, 144: 457
 of plasma in asphyxia and resuscitation, 1946, 147: 435
 in shock, 1947, 149: 52
 of serum, acclimatization to high altitude, 1947, 149: 573
 of serum and cells in pregnancy, 1942, 137: 386

CARBON DIOXIDE

of urine and plasma, acid-base balance, 1946, 147: 138

of venous blood from cerebrum, 1946, 147: 517

oxygen saturation of blood, 1947, 151: 484

oxygen tension and respiratory response, 1940, 130: 779

production by man at various altitudes, 1946, 147: 217

from acetate in heart, 1946, 145: 558

in helium exposure, 1951, 164: 248

of resting muscle, 1939, 126: 200

protection against acceleratory forces, 1948, 152: 22

resistance to G forces, 1946, 146: 43

respiration in chick, 1938, 121: 692

respiratory, produced from acetate in muscle, 1951, 166: 125

respiratory adjustment in oxygen, lack and excess, 1940, 129: 49

respiratory rate, 1938, 124: 491

respiratory vagal reflexes, 1938, 124: 535

response in fever, 1949, 158: 16

response to under low oxygen tension, 1942, 137: 257

role in agene-induced canine epilepsy, 1948, 154: 439

stress reaction to hypoxia, 1950, 161: 331

survival in anoxia, 1944, 142: 310; 1947, 151: 538

vasomotor center in hypoglycemia, 1940, 130: 256

viability and metabolism of spermatozoa, 1940, 128: 410

CARBON DIOXIDE DISSOCIATION CURVES: *see* CARBON DIOXIDE TENSIONCARBON DIOXIDE NARCOSIS: *see* NARCOSIS

CARBON DIOXIDE OUTPUT

adrenaline, 1940, 130: 197; 1947, 149: 71

production in peripheral tissues, 1939, 125: 702

chloralose anesthesia, 1941, 131: 564

during acclimatization to high altitude, 1947, 149: 570

CARBON DIOXIDE TENSION

arterial, during acclimatization to high altitude, 1947, 149: 571

pulmonary ventilation, 1946, 146: 617

respiratory response to changes, 1939, 128: 1

excitability of nerve, 1938, 122: 275

high, peripheral blood flow, 1938, 124: 735

in perfused brain, 1947, 149: 532

of air, resistance to anoxia, 1945, 145: 195

of alveolar air, 1946, 147: 191

age and sex differences, 1941, 133: 610

at high altitudes, 1947, 150: 204

at rest and after exercise, 1947, 151: 276

decompression sickness and, 1946, 147: 603

performance of subjects, 1946, 146: 209

physiological effects, 1946, 146: 652

of blood, 1950, 160: 163

hibernation, 1951, 167: 633

intestinal blood flow, 1951, 167: 417

oxygen tension in brain, 1948, 155: 191

vascular response, 1951, 166: 726

CARBON MONOXIDE

additive effect to that of methemoglobin, 1942, 137: 63

anoxemia and cervical lymph, 1941, 133: 170

conversion to carbon dioxide, 1945, 145: 253; 1950, 161: 40; 1950, 162: 560

elimination from human body, 1945, 145: 253

fate during recovery from poisoning, 1945, 145: 239

hemoglobin, 1941, 132: 311

leucocyte count, 1943, 140: 302

method of determining, blood volume, 1946, 146: 740

hemoglobin saturation, 1941, 133: 128

nerve action potential, 1947, 148: 178

of blood, during prolonged exposure, 1945, 145: 353

oxygen, hemoglobin in the blood, 1945, 145: 353

oxygen pressure and uptake, 1945, 145: 347

oxyhemoglobin dissociation, 1944, 141: 19

phenolsulphonphthalein test, 1943, 140: 377

poisoning, anoxia from, brain metabolism, 1945, 144: 334

recovery from, in man, 1945, 145: 239

respiratory and circulatory responses, 1941, 134: 683

rate of reaction with oxyhemoglobin, 1945, 143: 609

uptake, elimination, 1945, 143: 621

in man, 1945, 143: 594; 1946, 147: 352

time spent by blood in lung capillary, 1945, 143: 621

utilization, by muscle, 1940, 129: 199

CARBON TETRACHLORIDE

damage to liver and biliary excretion, 1951, 165: 680

depressor action of, in hypertensive dog, 1950, 160: 22

plasma esterase, 1947, 149: 616

plasma proteins in pregnancy, 1943, 139: 596

production of experimental hepatitis, 1943, 139: 593

CARBONIC ACID

acidification of urine, 1945, 144: 240

CARBONIC ANHYDRASE

hexyl resorcinol, ammonium thiocyanate, 1942, 135: 335

inhibition, by thiocyanate, 1940, 129: 507

metabolism of renal slices, 1951, 167: 212

of gastric mucosa, 1940, 128: 727

CARBOSTYRIL: *see* HYDROXYQUINOLINE

CARBOXYHEMOGLOBIN

altitude tolerance, 1945, 145: 361

anoxia, 1947, 148: 141

4'-CARBOXYPHENYLMETHANESULFONANILIDE: *see* CARINAMIDE

CARCASS

protein content, in rat, 1940, 128: 545

thiourea content, 1945, 143: 719

CARCINOMA

hypoproteinemia, disappearance of Evans blue, 1947, 151: 27

CARDIAC EJECTION

action on venous return, 1946, 145: 528

curve, calculated from aortic pressure pulse contour, 1945, 144: 546

contraction of cardiac muscle, 1951, 165: 285

relation to ballistocardiographic forces, 1945, 144: 557

CARDIAC GANGLION

acetylcholine, 1942, 136: 183

CARDIAC INDEX

- age, 1938, 121: 517
- definition, 1938, 121: 517
- dibenamine, in hemorrhage, 1950, 161: 116
- hemorrhage, 1950, 161: 111
- traumatic shock, 1950, 161: 125

CARDIAC NERVES

- heart rate, 1942, 137: 728
- recovery of responsiveness, 1938, 123: 313
- stimulation and coronary inflow, 1944, 141: 384

CARDIAC OUTPUT

- accuracy of rotameter measurements, 1950, 160: 183
- acute arteriovenous fistula, 1949, 158: 109
- acute hypoxemia, 1948, 154: 391
- age, 1938, 121: 517
- and input measured with Fick method and rotameter method, 1950, 160: 184
- auricular fibrillation, 1950, 163: 135
- basic, 1939, 126: 749
- by Fick procedure, 1945, 143: 709
- callicrein, 1944, 142: 523
- carotid sinus stimulation, 1946, 146: 414
- chamber used for determining, in rat, 1950, 163: 270
- climate, 1940, 129: 103
- CO poisoning, 1941, 134: 683
- comparison of direct Fick and pressure pulse contour methods, 1949, 159: 385
- direct method and Hamilton-Remington procedure, 1948, 154: 290
- Fick and ballistocardiograph results, 1951, 165: 502
- pressure pulse contour method and direct method, 1951, 167: 721
- coronary blood flow, 1940, 130: 108; 1940, 131: 45; 1945, 143: 479; 1947, 148: 591
- coronary circulation, 1940, 130: 126
- critique of calculating from injection of diffusible substances, 1947, 148: 37
- dye-injection method of calculating, 1947, 148: 36
- decrease by acute pericardial effusion, 1951, 165: 278
- definition, 1938, 121: 517
- drugs, 1949, 157: 353
- electrokymograph in comparison with Stewart, 1950, 161: 236
- endocrine influences, 1947, 149: 404; 1947, 151: 239
- estimated from ballistocardiogram and by ethyl iodide, 1939, 127: 20
- evaluation of method, 1947, 151: 245
- experimental heart failure, 1948, 153: 558
- failure of isolated heart preparation, 1945, 143: 507
- Fick values and validity of right atrial blood samples, 1951, 164: 583
- hemorrhagic shock, 1944, 140: 680; 1946, 147: 276
- high altitude, 1941, 132: 555
- histamine subcutaneously, 1944, 142: 161; 1947, 148: 136
- in humid heat, 1940, 131: 54
- in man, 1939, 127: 1
- in rat, 1950, 163: 268
- in syncope from gravity, 1943, 138: 630
- injection techniques for determining, 1949, 159: 389
- intrathoracic pressure, 1944, 142: 594

- isolated heart preparations, 1945, 143: 495
- lung blood flow, 1951, 166: 43
- measurement, 1944, 142: 594; 1948, 153: 309; 1951, 167: 721
- by electrokymography, 1949, 157: 343; 1950, 161: 231
- by flow of dye and radioactive red cells, 1946, 147: 493
- by foreign-gas method, 1941, 134: 268
- by recording conductivity method, 1947, 151: 45
- on breathing pure oxygen, 1946, 146: 62
- oxygen consumption, 1950, 162: 524
- oxygen consumption and work of right ventricle, 1948, 152: 376
- peripheral resistance, 1944, 140: 519
- positive pressure breathing, 1948, 152: 162
- pulmonary arteriovenous fistula, 1951, 165: 516
- pulse contour method for calculating, 1949, 159: 379
- reduction, and sodium excretion, 1951, 166: 262
- regulation of arterial blood pressure, 1946, 146: 413
- renal function, 1951, 165: 278
- renin, and angiotonin, 1944, 141: 129
- respiratory modification, 1941, 133: 642; 1941, 134: 74
- right heart catheterization in man, 1946, 145: 458
- semi-starvation and rehabilitation, 1947, 150: 158
- studied with tetraethylammonium, 1949, 157: 159
- summary of literature, 1944, 140: 520
- training and exercise, 1940, 129: 168
- trauma and hemorrhage, 1947, 151: 34

CARDIO-ACCELERATOR FIBERS: *see* NERVE FIBERS

CARDIOMETRIC RECORDING

- with chest closed, 1941, 134: 75

CARDIOTOXIN

- muscle-nerve preparation, 1950, 163: 209

CARDIOVASCULAR SYSTEM

- changes, after scalds, 1944, 142: 366
- damage by hemorrhagic shock, 1945, 144: 206
- drugs, 1945, 144: 164
- exercise, ageing, 1945, 143: 424
- hemorrhage, 1950, 161: 106
- hypothalamus, 1941, 134: 359
- reflexes, studies with tetraethylammonium, 1949, 157: 158

CAREN, R.: *see* WEISBERG, H. F.

CAREY, E. J.: *see* SIMONSON, E.

CAREY, M. M., VOLLMER, E. P., ZWEMER, R. L. and SPENCE, D. L. Glutathione and adrenal cortex, 1951, 164: 770

— *See* ZWEMER, R. L.

CARINAMIDE

- excretion of n-methyl-nicotinamide, 1950, 160: 315
- inhibition of penicillin excretion, 1947, 149: 355
- PAH accumulation in kidney slices, 1950, 161: 189
- potassium secretion, 1950, 161: 152
- renal clearance of penicillin, 1947, 149: 359
- renal clearance and binding of plasma protein by, 1949, 159: 181
- renal electrolyte metabolism, 1951, 167: 208
- succinic oxidase-succinoxidase inhibition and suppression of renal tubular mechanisms, 1951, 166: 109

CARINAMIDE

tubular secretion of phenol red, 1950, 161: 263

CARLEN, S. A. and KATZ, L. N. Index of auriculo-ventricular conductivity, 1939, 127: 272

CARLIN, M. R.: *see* MUELLER, C. B.

CARLSON, A. J.: *see* BRUNER, H. D.

CARLSON, H. B.: *see* GELLHORN, E.

CARMICHAEL, E. B., STRICKLAND, J. T. and DRIVER, R. L. Contents of alimentary tract of fasting rabbits, 1945, 143: 562

CARMINE

as a marker for metabolic studies, 1939, 126: 75

gastrointestinal motility, 1939, 126: 77

removal from lung, 1938, 123: 602

CARNE, H. O.: *see* MACKEY, E. M.

CARNES, W. H., OSEBOLD, J. and STOERK, H. C. Parathyroid function after hypophysectomy, 1943, 139: 188

— *See* FERREBEE, J. W.

CARONAMIDE: *see* CARINAMIDE

CAROTENE

ability of dog to utilize, 1938, 124: 168

absorption from isolated intestinal loops, 1941, 132: 202

CAROTID ARTERIES

back pressure, cerebral ischemia, 1946, 146: 470

circulatory failure, 1946, 146: 475

blood flow measured with electromagnetic flowmeter, 1938, 122: 788

development of collateral circulation following occlusion, 1941, 132: 351

ligation and blood pressure, 1939, 128: 134

occlusion of and adrenaline output, 1951, 166: 284

CAROTID BACK PRESSURE: *see* CAROTID ARTERIES, back pressure

CAROTID BODY

acceleration, 1948, 152: 492

anoxia, hypercapnia, asphyxia, 1942, 136: 200

apparatus for perfusing at various temperatures, 1939, 127: 96

chemo-reflex control of vascular reactions, 1938, 121: 1

cholinesterase, 1945, 144: 81

denervation of and vasomotor response to hypoxia, 1951, 166: 45

efferent pathway of vasomotor reactions for, 1945, 143: 220

ischemic excitation, 1938, 124: 238

mechanism, 1945, 144: 79

perfusion of, with blood of another animal, 1947, 150: 362

polycythemia and oxygen saturation, 1951, 164: 226

skeletal muscle reflexes, 1938, 123: 677

variations in temperature, 1939, 127: 94

CAROTID BODY REFLEX

pressor response to occlusion, 1950, 162: 553

regulation of respiration, 1941, 133: 1

response to arterial CO₂, 1939, 128: 1

CAROTID RECEPTORS

removal of, and response to tipping in rabbit, 1946, 147: 661

CAROTID SINUS

adrenaline in hyperglycemic shock, 1944, 142: 641

denervation, tourniquet shock, 1945, 144: 495

extra-vagal cardiac control, 1938, 124: 421

ligation, hyperglycemia, 1944, 142: 643

locus of acetylcholine vasopressor effect, 1940, 130: 350

mechanism of cardiovascular reflex, 1947, 150: 712

pathways in reflex, 1947, 150: 722

pressoreceptive respiratory reflex, 1938, 122: 306

reflex, convulsions, 1942, 137: 396; 1942, 137: 404

stimulation, arterial blood pressure, 1946, 146: 414

chloride absorption from small intestine, 1947, 150: 150

systemic blood pressure, 1940, 130: 186

CAROTID-MANDIBULAR REFLEX

importance in acute respiratory failure, 1947, 150: 358

CARPENTER, C. P.: *see* SHAFFER, C. B.

CARPENTER, F. G. Pelvic nerve section and the bladder, 1951, 166: 692

— and ROOT, W. S. Volume-pressure relations in bladder, 1951, 166: 686

CARPENTER, T. M. and HARTMAN, C. G. Hexoses and respiratory exchange in the monkey, 1944, 141: 249

CARR, C. W.: *see* VISSCHER, M. B.

CARR, D. T. and ESSEX, H. E. Hemorrhage and blood Hb with barbiturate anesthesia, 1944, 142: 40

CARRASCO-FORMIGUERA, R. and ESCOBAR, ISABEL. Epinephrine and alloxan effect, 1948, 152: 609

— MENDOZA, M. T. Mechanism of alloxan hypoglycemia, 1950, 160: 107

CARROT DIET

production of hyperparathyroidism, 1939, 125: 742

resistance to anoxia and, 1943, 140: 306; 1944, 142: 310

CARSTENS, H. P.: *see* KREHBIEL, R. H.

CARTILAGE

composition in various parts of the body, 1951, 166: 328

hyaline, histochemical composition, 1951, 166: 328

CARTLAND, G. F. and NELSON, J. W. Bioassay of mare serum hormone, 1938, 122: 201

— *See* KUIZENGA, M. H.

— *See* REMINGTON, J. W.

CARTWRIGHT, G. E.: *see* KEMP, I.

CARY, B. B.: *see* QUIMBY, F. H.

CASAS, CARMEN B., KING, J. T. and VISSCHER, M. B. Chronic caloric restriction, 1949, 157: 193

CASEIN

heated, utilization of nitrogen, 1948, 152: 286

hydrolysate, renal clearance of amino acid nitrogen, 1944, 140: 594; 1944, 140: 695

injection of and leucocyte count, 1951, 165: 559

protein content of heart, kidney, liver, 1940, 129: 687

thiamin and nutritive value, 1944, 141: 349

urinary nitrogen, 1942, 137: 547

CASHMAN, C. W., JR.: *see* MYLON, E.

CASIDA, L. E., MEYER, R. K. and MCSHAN, W. H.

- Augmentation of gonadotropic extracts by heme, 1943, 139: 89
- CASPE, S., DAVIDSON, B. and TRUHLAR, J. Diabetic creatine-creatinine indices, 1949, 159: 461
- CASS, RUTH ELIZABETH. Frog muscle under high oxygen tension, 1947, 148: 490
- CASSELS, D. E.: *see* MORSE, MINERVA
- CAST
prevention of experimental shock, 1942, 137: 589
- CASTRATION
activity rhythms and total activity in rats, 1944, 142: 633
adrenal weight, 1941, 132: 371
arterial hypertension, 1938, 122: 355
biotin deficiency, 1950, 161: 8
compensatory adrenalectomy, 1938, 123: 266
creatinine-creatinine excretion in monkeys, 1940, 130: 505
exophthalmos, 1938, 121: 620
growth, 1940, 128: 360
insulin in pancreas, 1944, 141: 609
liver and kidney metabolism, 1938, 122: 296
vitamin E deficiency, 1947, 148: 346
- CAT (studies of—in)
absolute threshold of vision and optic cortex, 1942, 136: 463
absorption from obstructed gall bladder, 1940, 129: 703
acceleration, 1946, 146: 39; 1947, 150: 7; 1947, 151: 355; 1948, 152: 22
acetylcholine, 1938, 121: 149; 1939, 127: 264; 1940, 129: 59; 1940, 130: 346; 1945, 144: 190; 1948, 153: 114; 1950, 162: 473
adrenalectomy, 1938, 123: 237; 1939, 127: 51; 1939, 127: 64; 1940, 128: 481; 1941, 131: 790; 1941, 132: 542; 1942, 136: 778; 1942, 137: 373; 1944, 141: 657; 1947, 148: 222; 1947, 151: 469
adrenaline, 1938, 121: 149; 1938, 123: 432; 1939, 125: 196; 1939, 125: 699; 1939, 127: 243; 1939, 127: 264; 1939, 127: 415; 1940, 128: 284; 1940, 129: 155; 1940, 130: 620; 1942, 135: 535; 1942, 136: 376; 1942, 137: 485; 1946, 146: 677; 1947, 149: 75; 1947, 150: 38; 1947, 150: 321; 1947, 150: 588; 1949, 157: 205; 1951, 166: 284
adrenocortical hormones, 1938, 124: 322; 1941, 131: 783; 1941, 133: 503; 1942, 137: 331; 1943, 139: 712
afferent paths to the cortex, 1941, 131: 718
anesthesia, 1940, 129: 650; 1940, 130: 34; 1940, 130: 197; 1940, 130: 219; 1941, 131: 561; 1941, 132: 796; 1942, 136: 173; 1943, 138: 458; 1948, 152: 6; 1948, 155: 50; 1950, 162: 308
anoxia, 1941, 134: 284; 1942, 135: 641; 1943, 139: 366; 1944, 140: 603; 1944, 141: 413; 1945, 143: 143; 1945, 145: 192; 1946, 147: 78; 1947, 151: 538; 1948, 153: 87; 1949, 159: 199
arterio-venous anastomoses, 1948, 152: 48
articular reflexes, 1950, 161: 133
asphyxia, 1939, 128: 13; 1940, 131: 1; 1941, 133: 572; 1944, 141: 97; 1944, 142: 32; 1944, 142: 428; 1946, 147: 669; 1947, 148: 174
auditory cortex, 1951, 164: 748; 1951, 167: 147
autonomic control of retractor penis, 1938, 122: 745
bioassay of heparin, 1943, 139: 612
blood pressure, 1938, 121: 32; 1939, 125: 234; 1939, 127: 722; 1939, 128: 133; 1943, 139: 217; 1943, 139: 347; 1945, 144: 587; 1949, 158: 403; 1950, 160: 523; 1950, 162: 308
blood sugar, 1938, 121: 728; 1940, 128: 324; 1941, 132: 446; 1946, 146: 26; 1947, 149: 249
blood volume, 1951, 164: 611
body chloride after administering sodium bromide, 1939, 127: 338
bulbar inhibitory mechanism in concussion, 1946, 146: 344
bulbar projection of trigeminal nerve, 1942, 137: 217
C.N.S., 1938, 122: 207; 1939, 126: 277; 1940, 131: 1; 1941, 132: 776; 1947, 133: 180; 1942, 135: 628; 1944, 141: 97; 1944, 142: 32; 1944, 142: 428; 1944, 142: 545; 1944, 142: 589; 1946, 146: 190; 1946, 146: 390; 1946, 147: 669; 1949, 158: 478; 1949, 159: 209; 1951, 166: 718
caffeine, 1944, 141: 457; 1944, 142: 109; 1948, 153: 454
calcium and prothrombin time, 1945, 143: 358
central connections of articular fibers, 1949, 159: 195
chemical mediators in aqueous humor, 1938, 124: 275
cholinergic action of estrogen, 1940, 131: 200; 1940, 131: 422
cholinesterase distribution, 1939, 126: 180; 1945, 144: 81
chromatolysis, 1949, 159: 233
chronic cervical, temperature regulation, 1940, 130: 715
circulatory effects of hypertonic solutions, 1950, 160: 511
cochlear potentials, 1939, 125: 688; 1949, 159: 199
concussion, 1944, 141: 117; 1946, 146: 16
connection between gall bladder and liver lymphatics, 1941, 133: 80
crossed phrenic phenomenon, 1941, 134: 102; 1951, 166: 241
decerebrate, 1940, 130: 292; 1945, 144: 259; 1947, 150: 40; 1950, 161: 135
decompression, 1946, 147: 19; 1946, 147: 289; 1947, 150: 607; 1951, 164: 752
denervated iris, 1940, 130: 268
dental enamel, 1941, 133: 117
depressor effect of rabbit erythrocytes, 1938, 124: 402
diabetes insipidus, 1938, 121: 112; 1938, 122: 143; 1938, 122: 288; 1939, 127: 64; 1943, 139: 700
diabetes, pancreatic, 1938, 122: 367; 1938, 123: 727; 1951, 166: 356
EEG, 1938, 121: 21; 1939, 125: 551; 1941, 131: 744; 1941, 132: 232; 1942, 135: 301; 1942, 135: 633; 1942, 136: 4; 1943, 139: 335; 1943, 139: 410; 1945, 144: 168; 1946, 147: 127; 1948, 153: 114; 1949, 159: 1; 1950, 161: 426

CAT (studies of—in)

- effect of magnesium on nervous system, 1940, 130: 292; 1942, 135: 494
- EKG, 1939, 126: 727; 1941, 131: 687; 1951, 167: 441
- electromyographic studies, 1941, 133: 724; 1947, 150: 558; 1949, 156: 27
- enterocrinin, 1938, 121: 483
- erythrocyte permeability, 1950, 162: 610
- exercise, 1939, 126: 173; 1943, 138: 538
- 933F, 1938, 123: 404
- fluid injection into vitreous humor, 1947, 150: 569
- frontal lobectomy, 1939, 126: 158; 1947, 149: 249; 1947, 150: 40
- gastrointestinal tract, 1939, 127: 301; 1940, 130: 81; 1941, 132: 297; 1942, 135: 498; 1944, 142: 109; 1945, 144: 693; 1946, 146: 190; 1947, 150: 416; 1948, 154: 347
- glutaminase of kidney, 1948, 154: 542
- glycogen of central nervous system, 1946, 146: 390
- gravitational shock, 1951, 165: 541
- hearing in, 1939, 125: 15
- heart, 1938, 122: 34; 1938, 124: 591; 1939, 126: 308; 1940, 129: 585; 1940, 131: 409; 1941, 134: 319; 1942, 136: 545; 1943, 138: 468; 1943, 139: 51; 1946, 145: 558; 1947, 148: 466; 1947, 148: 692; 1948, 154: 328; 1948, 154: 336; 1948, 155: 327; 1951, 164: 589; 1951, 167: 92
- hemodynamics of aortic occlusion, 1949, 157: 168
- histamine, 1948, 153: 454
- hypothalamus, 1938, 122: 81; 1938, 122: 530; 1939, 125: 301; 1939, 127: 597; 1940, 129: 650; 1940, 130: 74; 1940, 130: 81; 1941, 132: 5
- hypothermia, 1944, 141: 404; 1944, 141: 654; 1951, 166: 75; 1951, 166: 92
- improved methods of measuring respiratory exchange, 1944, 142: 744
- inanimation and temperature regulation, 1938, 122: 646
- induction of estrous behavior, 1939, 126: 229
- innervation of interosseous muscles, 1944, 142: 391
- insulin shock, 1938, 124: 202; 1941, 131: 554
- kidney, 1940, 128: 481; 1943, 139: 510; 1951, 167: 541
- lesions of organ of corti, 1942, 135: 351
- life cycle of leukocytes, 1945, 144: 284
- liver, venous circulation, 1949, 158: 305
- liver glycogen, 1941, 131: 783
- lymph, and lymph flow, 1940, 130: 34; 1943, 139: 600; 1945, 144: 297; 1948, 155: 50
- massive infusion, 1940, 130: 422
- mechanism in central inhibition, 1946, 146: 443
- mechanism of urination, 1939, 128: 195
- metabolism, 1940, 128: 284; 1940, 130: 197; 1941, 131: 561; 1942, 138: 141; 1944, 142: 545; 1945, 144: 270; 1946, 145: 558; 1949, 157: 278; 1949, 158: 478; 1951, 166: 99
- muscle, 1938, 121: 595; 1939, 125: 763; 1940, 131: 228; 1942, 136: 625; 1942, 137: 263; 1944, 142: 147; 1944, 142: 231; 1946, 146: 230; 1950, 163: 15
- muscle denervation, 1940, 131: 216; 1945, 145: 48; 1949, 158: 141
- narcotic level of carbon dioxide, 1947, 151: 469
- nerve physiology, 1938, 123: 307; 1939, 125: 674; 1939, 126: 731; 1939, 127: 137; 1939, 127: 264; 1941, 131: 650; 1941, 131: 732; 1941, 132: 57; 1941, 132: 119; 1941, 133: 96; 1942, 135: 324; 1942, 136: 629; 1944, 141: 196; 1945, 143: 698; 1948, 152: 436; 1948, 153: 586; 1950, 160: 451; 1951, 164: 502
- neuromuscular function, 1939, 126: 39; 1939, 126: 58; 1940, 130: 205; 1940, 130: 219; 1942, 137: 331; 1948, 152: 53
- nictitating membrane, 1938, 121: 149; 1938, 122: 650; 1940, 128: 695; 1942, 135: 453
- nitrogen balance, 1951, 166: 354
- ovulation, 1938, 123: 237
- P of muscle, 1940, 129: 227; 1942, 137: 750; 1944, 142: 621; 1945, 143: 159; 1945, 145: 87
- parasympathetic sensitization in eye, 1941, 132: 437
- partition of nitrogen in submaxillary saliva, 1940, 129: 539
- patellar reflex, 1948, 155: 78
- pelvic nerve section and bladder, 1951, 166: 692
- perfusion of organs, 1941, 133: 21; 1947, 149: 517
- pilocarpine, 1950, 160: 467
- pituitary hormones, 1938, 121: 558; 1938, 123: 400; 1939, 127: 64; 1944, 142: 116
- plasma prothrombin level, 1939, 125: 297; 1941, 132: 242
- plasma volume, 1939, 125: 714; 1941, 134: 310
- plexus-free intestinal segment behavior, 1951, 164: 284
- potassium metabolism, 1938, 122: 525; 1938, 123: 443; 1938, 124: 73; 1938, 124: 213; 1939, 126: 338; 1939, 127: 356; 1939, 128: 139; 1940, 129: 247; 1940, 131: 494; 1941, 131: 615; 1941, 135: 93; 1941, 135: 157; 1943, 139: 667; 1947, 148: 222; 1948, 152: 53
- pressor paths not blocked by TEA, 1950, 163: 290
- pressor substances, 1940, 131: 18; 1947, 149: 708; 1947, 150: 353; 1947, 151: 606; 1948, 153: 344
- proprioceptive reflexes, 1948, 154: 434
- proprioceptors and shivering, 1945, 145: 264
- protein of pericardial fluid, 1940, 129: 637
- protein osmotic pressure in capillaries, 1948, 152: 471
- prothrombin and ac-globulin, 1948, 154: 136
- pupil and eserine, 1950, 160: 474
- reactivity of pulmonary blood vessels, 1951, 167: 734
- reciprocal innervation in small intestine, 1940, 130: 648
- reflex activation of vasodilators in dorsal spinal roots, 1946, 145: 474
- reflex pupillo-motor activity, 1940, 131: 144
- respiration and respiratory tract, 1940, 129: 155; 1942, 135: 384; 1944, 140: 467; 1946, 147: 90; 1946, 147: 100; 1948, 154: 55; 1948, 155: 208; 1950, 160: 385; 1950, 163: 111
- respiration rate and body temperature, 1951, 166: 97
- respiratory centers, 1939, 126: 673; 1939, 126: 689; 1939, 127: 654; 1941, 134: 186; 1941, 134: 192;

- 1943, 139: 490; 1949, 157: 468; 1949, 159: 239; 1950, 160: 485
- responsiveness of sweat glands after denervation, 1951, 165: 356
- retrograde degeneration, 1949, 158: 457
- salivation following stimulation of medulla, 1941, 133: 637
- sensitivity to CO₂, 1938, 124: 729
- sensory-induced seizures, 1950, 161: 430
- serum constituents, 1942, 136: 778
- serum protein level, 1942, 136: 778
- sphincter mechanism of liver, 1941, 132: 713
- spinal animal, adrenaline, 1947, 150: 38
- stimulation and electrolytes of saliva, 1941, 135: 167
- stimulation by direct current, 1941, 132: 99
- stimulus pattern and reflex deglutition, 1951, 166: 142
- streamline blood flow in arteries, 1945, 144: 709; 1947, 150: 52
- submaxillary secretion, 1941, 134: 443
- sympathetic nervous system, 1938, 121: 261; 1938, 122: 62; 1938, 122: 186; 1938, 122: 659; 1938, 122: 688; 1938, 122: 708; 1938, 123: 359; 1938, 124: 637; 1939, 125: 276; 1939, 126: 173; 1939, 127: 642; 1939, 127: 738; 1940, 128: 463; 1940, 128: 526; 1940, 130: 627; 1941, 131: 572; 1941, 132: 542; 1941, 135: 51; 1942, 135: 759; 1946, 145: 476; 1946, 146: 376; 1947, 148: 471; 1947, 151: 80; 1950, 160: 467
- thalamo-cortical relations, 1942, 135: 281; 1943, 138: 283; 1943, 138: 298
- thermal trauma, 1943, 139: 574
- thiamin deficiency, behaviour and reflexes, 1944, 141: 444
- thresholds of stimulation in brain stem, 1938, 121: 708
- thyroidectomy, 1938, 122: 367
- tissue and plasma chloride, 1938, 122: 227
- tissue electrolytes at low atmospheric pressures, 1944, 142: 63
- toe spreading reflex, 1944, 142: 391
- tolerance to heat and dehydration, 1947, 151: 564
- transfer of sodium across placenta, 1941, 134: 342
- trigeminal and spinal tracts, 1942, 137: 409
- uterus, 1938, 124: 504; 1940, 128: 372
- vagus nerve, 1938, 121: 270; 1940, 130: 679; 1949, 158: 31
- vasodilator innervation in parietal cortex, 1939, 125: 217
- veratrine, 1941, 133: 736; 1942, 136: 699
- vitamin K absorption and pancreatic achylia, 1941, 135: 137
- volume-pressure relations in bladder, 1951, 166: 686
- Wallerian degeneration, 1939, 128: 19; 1939, 128: 45; 1943, 139: 247
- water and salt balance, 1938, 122: 147; 1938, 122: 668; 1940, 131: 363; 1951, 164: 686
- zinc feeding, 1938, 121: 253
- CATALASE**
liver, hepatectomy, 1951, 167: 581
- CATARACT**
in alloxan treated parabiotic rats, 1947, 148: 190
in diabetic animals, 1950, 161: 540; 1951, 165: 63
- CATECHOL**
adrenaline oxidation by tyrosinase, 1942, 136: 67
clotting time, 1945, 144: 450
- CATHETERIZATION**
for studying pulmonary venous and arterial pressures, 1949, 158: 89
injury to heart due to, 1948, 155: 104
of right heart, critique of, 1946, 145: 458
venous and arterial, for estimation of pulmonary capillary pressure, 1948, 155: 98
- CATION EXCHANGE RESINS**
—See ION EXCHANGE RESINS
- CATTLE**
bull, energy source for spermatozoa, 1941, 134: 542
metabolism of maltose by spermatozoa, 1950, 162: 598
metabolism of spermatozoa from, 1941, 133: 602
phosphatase of semen, 1948, 153: 235
plasma phosphatase levels, 1948, 152: 280
cerebrospinal fluid pressure and vitamin A deficiency in, 1940, 130: 686
cow, actomyosin of uterus, 1950, 160: 46
aorta of, Young's modulus for, 1939, 125: 3
distribution of enterocrinin in, 1938, 121: 483
estrous, spermatozoa transport, 1951, 165: 674
heparin and plasma coagulation, 1943, 139: 614
histamine of blood and bone marrow, 1941, 131: 768
prothrombin in blood, 1941, 132: 242
thyroid secretion rate in, 1947, 150: 691
vitamin B of whole blood, 1950, 163: 79
folic acid of blood, 1947, 148: 320
prothrombin and ac-globulin in, 1948, 154: 136
respiration of spermatozoa from, 1942, 136: 70
steer, heart rate in hyperthyroidism, 1948, 153: 412
utilization of urea, 1948, 153: 41
- CAUDATE NUCLEUS**
cholinesterase content, 1948, 155: 61
glycogen content, age, 1946, 146: 390
glycolysis during growth, 1944, 142: 545
oxygen consumption, 1941, 132: 455
- CAUTHEN, G. E.:** *see* RIDDLE, O.
- CAVERT, H. M.:** *see* JOHNSON, J. A.
— *See* LIFSON, N.
- CAVETT, J. W. and FOSTER, W. C.** Ammonia formation by the kidney, 1938, 124: 66
- CCK:** *see* CHOLECYSTOKININ
- CECUM**
contents during fasting, 1945, 143: 563
enterocrinin, 1938, 121: 483
- CEDERQUIST, DENA:** *see* OHLSON, MARGARET A.
— *See* PITTMAN, MARTHA S.
- CELIAC GANGLION:** *see* SYMPATHETIC NERVOUS SYSTEM, GANGLIA, celiac
- CELITE**
injection of and leucocyte count, 1951, 165: 559
- CELL CULTURE**
neoplastic, blood serum, 1948, 153: 492
pteridines, 1948, 153: 492

CELLOPHANE

use in measurement of T-1824, 1948, 154: 27

CELLS

amino nitrogen, 1940, 128: 774
 metabolism, permeability, 1947, 149: 346
 permeability, disease and, 1948, 152: 113
 to glucose, 1940, 130: 89
 to sorbitol, 1951, 166: 421
 to various hexoses, 1950, 163: 70
 to various substances, 1944, 142: 439
 population, respiration, 1942, 136: 59
 proliferation, pteridines, 1948, 153: 488
 respiration of, role of calcium and indigo in, 1938, 122: 402

CENTER OF GRAVITY

determination of, 1938, 121: 465
 in standing, 1947, 150: 111
 static effort, 1947, 150: 111

CENTRAL NERVOUS SYSTEM

acetylcholine of, 1941, 132: 588
 audiogenic fits during Mg deficiency, 1947, 149: 135
 biotin deficiency, 1945, 144: 175
 connections of articular fibers, 1949, 159: 195
 control of rhythmic variations of blood pressure, 1950, 161: 92
 high oxygen pressure and, 1945, 143: 206; 1945, 143: 662
 humoral intermediation of cell activity, 1943, 138: 776
 physiological delimitation of neurones, 1939, 127: 620
 reproductive cycle, 1939, 126: 758
 role in renal hypertension, 1950, 161: 435
 site of action of bacterial pyrogen, 1949, 159: 209
 temperature-pressure relationships, 1949, 158: 135

CEPHALIN

acetylcholine synthesis, 1947, 148: 422
 clotting of hemophilic plasma by trypsin, 1939, 126: 670
 coagulant action of trypsin, 1939, 126: 663
 thrombin formation, 1938, 123: 341

CEPHALOGYRIC REACTIONS

non-labyrinthine origin, 1942, 135: 628

CEREBELLUM

chloride content, 1938, 122: 228
 cholinesterase content, 1948, 155: 61
 convulsions induced by β -chlorinated amines, 1950, 160: 195
 function, thiamin deficiency, 1944, 141: 446
 glycogen content, age, 1946, 146: 390
 glycolysis during growth, 1944, 142: 545
 metabolism of, 1941, 132: 294
 oxygen consumption, 1941, 132: 455
 pathways in, 1939, 127: 232
 respiration, 1942, 136: 53
 during development, 1942, 136: 601

CEREBRAL BLOOD FLOW

cerebral metabolism, 1946, 147: 517
 CO_2 , 1938, 124: 733
 during arrest of breathing, 1938, 122: 207
 during electronarcosis, 1943, 139: 171
 focal, recording of, 1940, 128: 489

in insulin hypoglycemia, 1941, 132: 640

in living cat, 1947, 149: 528

in man, 1945, 143: 53

in monkey, 1943, 138: 421

labyrinthine stimulation, 1944, 142: 591

metabolism in insulin hypoglycemia, 1941, 132: 640

pentothal anesthesia, 1946, 147: 343

resistance to, 1940, 130: 590

systemic blood pressure, 1944, 142: 591

CEREBRAL CORTEX: *see* CEREBRAL HEMISPHERES, CORTEXCEREBRAL FUNCTION: *see* BRAIN, function

CEREBRAL HEMISPHERES

convulsions induced by β -chlorinated amines, 1950, 160: 195

oxygen consumption, in infant, 1939, 125: 602

CEREBRAL HEMISPHERES, CORTEX

ablation, and mating behavior, 1939, 127: 374

acetylcholine-treated, metrazol activation of, 1950, 161: 426

activity and acetylcholine, 1948, 153: 113

anesthesia and blood supply to, 1940, 129: 655

areas 4 and 6, lesions and skin temperature, 1938, 121: 52

arsenite and respiration, 1945, 143: 640

augmentation and repetition with thalamus, 1943, 138: 297

changes in electrolytes during convulsions, 1947, 150: 27

cold and metabolism, 1943, 139: 195

conditioned responses, 1947, 151: 325

control of clonic responses, 1942, 137: 681

deafferentation and stimulation, 1949, 156: 311

electrical activity and pH, 1938, 124: 633

electrical stimulation of, blood pressure, 1948, 152: 314

glycogen content, age, 1946, 146: 390

glycolysis during growth, 1944, 142: 545

gray matter of, cisternal injection of kaolin, 1938, 124: 90

increased temperature and activity, 1949, 159: 1

injury, conditioned responses, 1946, 147: 454; 1947, 151: 325

insulin and pH, 1939, 125: 680

interaction of potentials, 1942, 135: 302

ions and respiration, 1942, 135: 309

lesions and conditioned reflexes, 1949, 159: 525

localization, acoustic area, 1950, 160: 395

metabolism, 1941, 132: 294; 1941, 132: 455

 following anoxia and hemorrhage, 1945, 144: 683

 potassium deficiency, 1951, 167: 319

motor, deafferentation and stimulation, 1949, 156: 311

optic, absolute threshold of vision and, 1942, 136: 463

oxidation and glycolysis, 1944, 141: 515

oxygen consumption, 1945, 144: 88

 adrenalectomy, 1940, 130: 231

pace-maker, 1942, 135: 706

pentothal anesthesia, 1946, 147: 343

peripheral circulation, 1938, 121: 49

potentials, after thalamic stimulation, 1942, 135: 294

- olfactory, 1943, 139: 553
 recorded simultaneously with hypothalamic potentials, 1946, 146: 631
 prostigmine, acetylcholine and potentials, 1942, 135: 633
 recovery after hypoxia, 1944, 141: 413
 relay system with thalamus, 1943, 138: 283
 response to strychnine, 1941, 132: 776
 responses to electrical stimulation, 1942, 135: 690
 sensorimotor cortex, 1938, 121: 21
 spread of discharges, by acetylcholine, 1945, 144: 168
 stimulation of, blood pressure, 1948, 152: 314
 respiratory rate, 1949, 159: 239
 thalamic connections with, 1942, 135: 283
 water and electrolyte composition, 1949, 157: 236
- CEREBRAL ISCHEMIA:** *see* ISCHEMIA, cerebral
- CEREBROSPINAL FLUID**
 acetylcholine in, 1950, 162: 616
 bromide concentration, serum bromide, 1942, 137: 111
 calcium, and spinal reflexes, 1940, 131: 67
 chemistry and nature of during fetal life, 1938, 124: 131
 chloride of, 1940, 129: 600
 cholinesterase activity of, 1939, 126: 184
 ciliary movement and circulation of, 1942, 136: 225
 diffusion of sugars, 1938, 123: 747
 effectiveness in replacing perilymph of cochlea, 1939, 125: 693
 entrance of sodium, 1944, 142: 29
 formed by ultrafiltration or secretion, 1938, 124: 134
 neuromuscular response to salt content, 1938, 121: 719
 passage of sorbitol from blood, 1939, 125: 654
 pressure, anoxemia, 1941, 133: 180
 carbon dioxide and, 1951, 165: 334
 cough, 1944, 141: 45
 decompression, 1947, 148: 253
 vitamin A deficiency and, 1940, 130: 684; 1941, 134: 436
 protection of cerebral circulation, 1947, 151: 355
 urate and allantoin, 1949, 157: 394
- CEREBRUM**
 chloride content, 1938, 122: 228; 1940, 129: 600
- CERVIX:** *see* UTERUS
- CESIUM**
 histological effects of adding to K-deficient diet, 1943, 138: 246
- CHADWICK, L. E.:** *see* FENN, W. O.
 — *See* RAHN, H.
- CHAIKELIS, A. S.** Glycine ingestion, response and creatinine excretion, 1941, 132: 578
- CHAIKOFF, I. L.:** *see* BLOOM, B.
 — *See* CHERNICK, S. S.
 — *See* ENTENMAN, C.
 — *See* FRIEDLANDER, H. D.
 — *See* LORENZ, F. W.
 — *See* MONTGOMERY, M. L.
 — *See* PERLMAN, I.
 — *See* RANNEY, R. E.
 — *See* SHELLEY, G. E.
- CHAKRABARTY, M. L.** Adrenaline and small intestine, 1949, 159: 457
- CHAMBERLIN, P. E.:** *see* HALL, V. E.
- CHAMBERS, A. H., BREWER, G., DAVENPORT, H. W. and GOLDSCHMIDT, S.** Respiratory responses to anoxemia, 1947, 148: 392
 — *See* DAVENPORT, H. W.
- CHAMBERS, C. C.:** *see* MAXFIELD, M. E.
- CHAMBERS, F. W., JR.:** *see* BARROW, J.
- CHAMBERS, G. H., MELVILLE, ELEANOR V., HARE, RUTH S. and HARE, K.** Plasma osmotic pressure and release of pituitrin, 1945, 144: 311
 — *See* HARE, K.
- CHAMBERS, R. and CAMERON, GLADYS.** Adrenal cortical compounds and isolated renal tubules, 1944, 141: 138
 — CAMERON, GLADYS. Ascorbic acid and epithelium in tissue culture, 1943, 139: 21
 — ZWEIFACH, B. W. Blood-borne vasotropic substances in shock, 1947, 150: 239
 — ZWEIFACH, B. W. and LOWENSTEIN, B. E. Circulatory reactions of rats in traumatic shock, 1943, 139: 123
 — *See* CAMERON, GLADYS
 — *See* ZWEIFACH, B. W.
- CHAMBERS, W. W., KOENIG, H., KOENIG, RUTH and WINDLE, W. F.** CNS action of bacterial pyrogen, 1949, 159: 209
- CHAMBLISS, J. R., DEMMING, J., WELLS, K., CLINE, W. W. and ECKSTEIN, R. W.** Hemolyzed blood and coronary blood flow, 1950, 163: 545
- CHANG, T. S. and FREEMAN, S.** Citric acid and calcium, 1950, 160: 330
 — *See* FREEMAN, S.
- CHANUTIN, A. and GJESSING, E. C.** Composition of regenerating liver, 1949, 157: 135
 — LUDEWIG, S. Renal insufficiency and parathyroid hormone, 1940, 129: 242
 — LUDEWIG, S. Serum iron concentration and x-irradiation, 1951, 166: 380
 — *See* BECKWITH, J. R.
 — *See* LOWRANCE, P.
 — *See* LUDEWIG, S.
- CHAPANIS, A.** Dark adaptation of the color anomalous, 1946, 146: 689
- CHAPIN, M. A. and ROSS, J. F.** Determination of the true blood cell volume, 1942, 137: 447
- CHARALAMPOUS, F. C. and HEGSTED, D. M.** Cataracts and diabetes, 1950, 161: 540
- CHARIPPER, H. A., GOLDSMITH, E. D. and GORDON, A. S.** Vitamins and resistance to low barometric pressure, 1945, 145: 130
 — *See* CROSMAN, A. M.
 — *See* GORDON, A. S.
- CHART**
 for estimating red cell mass from hematocrit, 1944, 141: 363
- CHATFIELD, P. O.** Salivation and localized stimulation of medulla, 1941, 133: 637
 — DEMPSEY, E. W. Cortical potentials, prostigmine and acetylcholine, 1942, 135: 633

- CHATFIELD, P. O. and LYMAN, C. P. Circulatory changes during arousal, 1950, 163: 566
- MEAD, S. Crossed phrenic phenomenon, 1948, 154: 417
- SARNOFF, S. J. Suppression during electrophrenic respiration, 1950, 163: 118
- BATTISTA, A. F., LYMAN, C. P. and GARCIA, JUANITA P. Cooling and nerve conduction, 1948, 155: 179
- CHAVRÉ, VIRGINIA J.: *see* DAVENPORT, H. W.
- CHEMORECEPTORS
- abdominal, 1946, 147: 654
 - control of respiration, 1943, 138: 610
 - breathing in fish, 1942, 138: 104
 - tetraethylammonium, 1948, 153: 601
- CHEMOREFLEX REACTIONS
- from carotid body, 1945, 143: 220
 - vascular, simultaneous measurement in intestine and leg, 1945, 143: 365
- CHEN, C. J.: *see* TSAI, C.
- CHEN, K. K.: *see* WAKIM, K. G.
- CHENG, C.-P., SAYERS, G., GOODMAN, L. S. and SWINYARD, C. A. ACTH activity of pituitary grafts, 1949, 159: 426
- SAYERS, G., GOODMAN, L. S. and SWINYARD, C. A. Stalk section and ACTH, 1949, 158: 45
- *See* WOODBURY, D. M.
- CHENOWETH, M. B.: *see* GARB, S.
- CHERNICK, S. S., LEPKOVSKY, S. and CHAIKOFF, I. L. Proteolytic activity of pancreas, 1948, 155: 33
- CHERNOFF, H. M.: *see* NAHUM, L. H.
- CHERRY, I. S. and CRANDALL, L. A., JR. Liver glucose-lactic acid cycle, 1939, 125: 41
- *See* CRANDALL, L. A., JR.
- CHESLER, ANNETTE and HIMWICH, H. E. Glycolysis of central nervous system during growth, 1944, 142: 544
- HIMWICH, H. E. Oxidation and glycolysis of cortex and brain stem, 1944, 141: 513
- *See* HIMWICH, H. E.
- CHESLEY, ELIZABETH R.: *see* CHESLEY, L. C.
- CHESLEY, L. C. and CHESLEY, ELIZABETH R. Renal blood flow, 1939, 127: 731
- CHEST WALL MOVEMENT
- respiration, 1940, 130: 675
 - venous return, 1946, 145: 528
- CHICK EMBRYO
- metabolism of histamine and adenosine in, 1946, 147: 462
 - nerve-free smooth muscle of amnion, 1940, 131: 524
 - phosphorus in muscle tissue of, 1951, 165: 711
 - reaction of heart to ouabain, 1938, 122: 753
- CHICKEN
- absorption and disposition of glucose, 1942, 136: 244
 - acetylcholine and cholinesterase in retina, 1947, 148: 42
 - alleviation of acceleratory force, 1946, 146: 39
 - antifibrinolysin activity and folic acid deficiency, 1947, 150: 667
 - arterial hypertension, 1948, 152: 557
 - azotemic, transport of urate in plasma, 1947, 151: 186
 - blood sugar, 1947, 150: 67
 - after insulin, 1943, 139: 564
 - body temperature, 1947, 150: 67; 1950, 162: 175
 - body size in hormone assays, 1940, 129: 285
 - cardiovascular response to oxytocic principle, 1944, 142: 115
 - ciliary action of trachea, 1951, 167: 108
 - coccidiosis and artificial hemorrhage, 1941, 134: 19
 - contractile proteins of skeletal muscle, 1951, 165: 701
 - effects of change in body temperature, 1946, 147: 531; 1947, 148: 611; 1947, 150: 67; 1947, 151: 509; 1948, 152: 383; 1950, 162: 175; 1951, 166: 94
 - environmental temperature on dietary requirements, 1947, 149: 376
 - heterologous renin, 1942, 136: 733
 - raw soy bean meal on proteolytic activity of pancreas, 1948, 155: 33
 - sex hormones in, 1943, 138: 479
 - thymus removal, 1938, 123: 319
 - vagus on panting, 1942, 138: 13
 - vitamin B₆ deficiency, 1945, 144: 353
 - electrocardiogram in, 1948, 154: 251; 1950, 162: 538
 - excretion of phosphorus, 1943, 138: 321
 - fluid regulation in, 1951, 167: 485
 - folic acid of blood, 1947, 148: 320
 - formation of plasma phospholipides in, 1951, 165: 596
 - function of spleen, 1943, 138: 599
 - functional hepatectomy, 1951, 165: 588
 - glycogenolysis, 1951, 165: 624
 - hyperthyroidism and egg production, 1947, 149: 383
 - initiation of respiration, 1938, 121: 684
 - kidney, as source of renin, 1942, 136: 733
 - laying, utilization of tocopherols, 1950, 160: 259
 - leg anomaly due to confinement, 1944, 141: 275
 - lipid metabolism in, 1951, 165: 600
 - oral effectiveness of sodium salts of thyroxine, 1949, 156: 381
 - oxygen consumption in vitamin E deficiency, 1943, 138: 328
 - panting and temperature regulation, 1939, 127: 761
 - plasma prothrombin level, 1939, 125: 297
 - potency of certain synthetic estrogens in, 1946, 147: 582
 - protein of pericardial fluid, 1940, 129: 637
 - prothrombin and ac-globulin, 1948, 154: 136
 - respiration rate, 1951, 166: 97
 - secretion of urine, 1940, 128: 592
 - skin and feather temperatures, 1951, 166: 572
 - sustained pressor principle, 1948, 153: 344
 - thromboplastic activity of brain and blood, 1942, 137: 179
 - thyroid secretion rate, 1947, 150: 691
 - vitamin B of whole blood, 1950, 163: 79
 - vitamin E requirement, 1949, 159: 287
 - water metabolism, 1942, 136: 657
- CHIDSEY, JANE L.: *see* DYE, J. A.
- CHILD, C. G.: *see* GLENN, F.

CHILDREN

- arterial oxygen content during inhalation of air and oxygen, 1948, 152: 697
- basal metabolism, 1944, 140: 461
- blood volume, 1947, 151: 448
- carmine and gastrointestinal motility, 1939, 126: 75
- motility during sleep, 1939, 127: 480
- tissue fluid volumes, 1947, 151: 438

CHILDS, ALICE and EICHELBERGER, LILLIAN. Distribution of water and electrolytes in pregnancy, 1942, 137: 384

CHIMPANZEE

- inulin and creatinine excretion, 1938, 122: 134
- labyrinthectomy in, 1938, 121: 392
- venous pressure in arm, leg, and right auricle, 1942, 136: 116

CHINN, H. I.: *see* NOELL, W.

CHIODI, H. P., DILL, D. B., CONSOLAZIO, F. C. and HORVATH, S. M. Respiratory and circulatory responses to CO, 1941, 134: 683

— *See* ASMUSSEN, E.

— *See* DUMKE, P. R.

— *See* FASCILOLO, J. C.

CHIU, K. Y.: *see* TSAI, C.

CHLORAL HYDRATE

- anticonvulsant in oxygen poisoning, 1945, 144: 276
- asphyxial depolarization potential, 1950, 160: 453
- respiration of heart muscle, 1944, 142: 198

CHLORALOSANE

- anesthesia with, 1943, 140: 177
- blood sugar, 1938, 121: 730

CHLORALOSE

- acetylcholine of brain, 1950, 162: 472
- anesthesia, metabolism under, 1941, 131: 561
- blood sugar, 1938, 121: 730
- survival to explosive decompression, 1950, 163: 401

CHLORAMINE-T

- clotting time, 1945, 144: 453

CHLORETONE

- water balance of frogs, 1943, 140: 22

CHLORGUANIDE

- succinic oxidase-succinoxidase inhibition and suppression of renal tubular mechanisms, 1951, 166: 110

CHLORIDE

- absorption, 1940, 128: 605; 1942, 135: 330; 1947, 150: 150
 - anoxia, 1940, 139: 619
 - bile salts, 1942, 136: 341
 - from ileum, 1941, 134: 37
- acidosis and, in muscle, 1951, 167: 669
- anaerobic glycolysis in liver slices, 1946, 147: 509
- balance, antagonism of desoxycorticosterone and posterior pituitary extract, 1941, 133: 511
 - in adrenalectomized dogs, 1950, 160: 95
 - in hemorrhagic shock, 1946, 147: 307
 - with continuously administered salt solutions, 1945, 143: 573
 - with cortisone and DCA, 1951, 166: 495
- bicarbonate and, in the renal regulation of acid base balance, 1946, 147: 138
- clearance in hypertension, 1951, 165: 328

- depletion in adrenalectomized dog, 1950, 160: 89
 - distribution of massive infusion of, 1940, 130: 424
 - equilibrium in muscle, 1945, 143: 669
 - erythrocyte permeability, 1948, 152: 113
 - excretion, 1943, 140: 334; 1945, 143: 570
 - during osmotic diuresis, 1950, 160: 536; 1950, 162: 668
 - during water intoxication, 1945, 144: 574
 - extracellular fluid volume, 1950, 162: 681
 - hypophysectomy, adrenalectomy, 1939, 125: 649
 - ideal osmotic work, 1949, 157: 359
 - in water diuresis, 1947, 148: 329
 - mercurial diuretics, 1942, 135: 593
 - nitrogen mustard, 1948, 155: 299
 - pitressin, 1940, 128: 748; 1947, 151: 174; 1949, 159: 134
 - regulation and retention, by kidney, 1947, 148: 54
 - renin and, 1951, 166: 621
 - splanchnicotomy and, 1951, 164: 175; 1951, 166: 644
 - temperature change, 1945, 143: 379
 - testosterone, 1948, 155: 272
 - urinary pH, 1941, 132: 275
 - water diuresis and exercise, 1947, 148: 335
 - impoverishment during absorption, 1938, 121: 775
 - kidney reabsorption, 1951, 165: 93
 - low diet, dogs, 1940, 129: 597
 - metabolism, ion exchange resins, 1950, 160: 268
 - movement between cells and serum, 1947, 148: 568
 - permeability of blood-spinal fluid barrier, 1945, 143: 87
 - cells, 1944, 142: 440
 - prevention of shock by, after venous occlusion, 1945, 145: 151
 - produced by jejunum and ileal secretion, 1939, 128: 73
 - renal tubular reabsorption, 1947, 148: 446
 - retention, 1943, 138: 191
 - role in thirst, 1950, 162: 338
 - uptake and output by perfused liver, 1938, 124: 704
 - water content of perfused heart, 1942, 136: 518
- CHLORIDE (As TISSUE CONSTITUENT)
- changes in stimulated muscle, 1940, 128: 443
 - critical plasma concentrations, 1945, 143: 572
 - distribution, between aqueous humour and blood plasma, 1941, 134: 1
 - in cerebrospinal fluid and plasma, 1938, 124: 131
 - in heart and skeletal muscle, 1943, 139: 670
 - extracellular of brain, 1940, 128: 684
 - of muscle, 1945, 143: 669
 - intracellular, of muscle, 1945, 143: 669
 - of blood, anesthesia, 1950, 160: 279
 - coccidiosis, hemorrhage, 1941, 134: 19
 - cortin, hepatectomy, 1940, 128: 731
 - during acclimatization to high altitude, 1947, 149: 574
 - during renal hypertension, 1946, 147: 650
 - evisceration, 1950, 160: 250
 - exercise, 1938, 121: 293
 - hypertonic injections, 1949, 159: 162
 - hypotonic saline injection, 1949, 159: 61
 - in pyridoxine deficiency, 1946, 146: 733

CHLORIDE (AS TISSUE CONSTITUENT)

- of blood, nitrate administration, 1940, 129: 603
- radiation syndrome and, 1950, 162: 705; 1951, 165: 31
- of blood and tissue, adrenalectomy, 1941, 132: 522
- desoxycorticosterone, progesterone, 1941, 132: 522
- of blood and urine, ascorbic acid metabolism and, 1951, 166: 376
- of blood, muscle and liver, 1939, 127: 387
- of body, after administration of sodium bromide, 1939, 127: 338
- relation to body fat, 1940, 130: 609
- of brain and plasma, 1949, 156: 325
- of brain cortex of rats, 1949, 157: 236
- of cartilage, 1951, 166: 331
- of gastric juice, 1941, 133: 542
- total, acid, and neutral, 1941, 132: 504
- of gastrointestinal tract after glucose ingestion, 1945, 144: 612
- of genital tract, 1940, 130: 290
- of gut during absorption of serum, 1945, 144: 457
- of gut fluids, during absorption, 1945, 144: 468
- of heart after coronary occlusion, 1942, 136: 481
- of hepatic bile, chronic fistula, 1945, 145: 187
- of liver, anoxia, 1945, 145: 33
- in hemorrhagic shock, 1945, 145: 33
- of muscle, 1940, 129: 267
- following ischemia, 1951, 167: 291; 1951, 167: 308
- stimulation, 1938, 121: 600
- of muscle and skin, splenectomy, 1950, 160: 298
- of pericardial fluid, 1940, 129: 639
- of peritoneal fluids, 1940, 129: 642
- of plasma, 1938, 122: 228; 1940, 129: 600
- DCA and ACTH, 1950, 160: 223
- epinephrine, 1938, 121: 327
- gravity shock, 1944, 141: 166
- radiation syndrome, 1951, 165: 43
- regulation by kidneys, 1945, 143: 570
- sodium chloride in work in dry heat, 1943, 140: 446
- whole-body x-irradiation, 1951, 164: 454
- of plasma and cells as affected by hemorrhage and trauma, 1947, 149: 426
- of plasma and cerebral cortex, 1949, 156: 165
- of plasma and erythrocytes of adrenalectomized dog, 1950, 160: 92
- of plasma and plasma ultrafiltrate, 1950, 162: 351
- of plasma and tissue, 1938, 122: 224
- of plasma and urine, 1949, 157: 359
- of serum, adrenalectomy and, 1938, 123: 703; 1938, 123: 708
- chloride of extracellular fluid, 1938, 124: 552
- deep hypothermia, 1943, 140: 12
- environmental temperature, 1940, 129: 80
- exercise, 1940, 128: 421
- hemorrhagic shock, 1946, 147: 307
- in exercise, 1938, 122: 106
- in shock, 1947, 149: 54
- oxygen consumption, 1943, 139: 80
- pitressin, 1939, 127: 66
- splenectomy, 1950, 160: 297

- of serum and cells in pregnancy, 1942, 137: 386
- of serum and myocardium, 1951, 166: 279
- of sweat, 1944, 141: 576
- acclimatization, 1938, 123: 415
- of tissues, 1940, 129: 600
- at low atmospheric pressures, 1944, 142: 63
- in hypertension, 1950, 161: 280
- of adrenalectomized and normal dogs, 1950, 160: 98
- of urine, pitressin, 1947, 151: 174
- of various levels of gastrointestinal tract, 1945, 144: 356
- ratio of serum and pericardial fluid, 1940, 129: 639
- of serum and peritoneal fluid, 1940, 129: 642
- of various body fluids, 1940, 129: 640
- stimulation and, in submaxillary glands, 1941, 135: 167

CHLORIDE (RADIOACTIVE)

- measurement of extracellular fluid, 1943, 139: 239
- transcapillary exchange of chloride, 1949, 158: 231
- movement from gut to blood, 1944, 142: 550
- penetration of blood-cerebrospinal barrier, 1943, 140: 57

CHLORIDE SPACE

- extracellular space, of liver, 1939, 126: 402

CHLORIDES

- Al, permeability of frog skin, 1950, 162: 196
- Ba, anoxia and action, 1951, 164: 567
- arterial pressure, 1950, 160: 422
- denervated muscles, 1949, 158: 142
- vascular reactivity to, 1949, 156: 414
- Ca, fibrillation, atrophy of denervated muscle, 1942, 135: 749
- frog heart rate, 1938, 124: 185
- intracisternal injection of, 1945, 145: 232
- intravenous, EKG and serum calcium concentration, 1939, 125: 162
- replacement of perilymph, 1939, 125: 694
- seizure pattern in rat, 1949, 157: 235
- urine volume after injection, 1939, 127: 542
- use to separate contractile force and irritability in heart muscle, 1951, 164: 234
- Cd, blocking of epinephrine cardioacceleration, 1950, 163: 492
- Li, distribution in animal body, 1950, 163: 633
- Mg, fibrillation and atrophy of denervated muscle, 1942, 135: 749
- injection of, 1948, 152: 409
- seizure patterns in rat, 1949, 157: 235
- NH₄, acidosis due to, 1948, 154: 480; 1951, 166: 191
- injection, pH of blood, synovial fluid, 1946, 146: 9
- ischemic pain, 1939, 127: 315
- pathogenesis of pulmonary edema due to, 1949, 158: 1
- use to separate contractile force and irritability in heart muscle, 1951, 164: 234

CHLORINE

- radioactive, absorption from intestinal tract, 1938, 124: 667
- penetration of tissues, 1941, 134: 83

7-CHLORO-3-HYDROXY-2-PHENYL CINCHONINIC ACID
see CINCHONINIC ACIDS

CHLOROBUTANOL

- energy-rich phosphates and cardiodynamics in dog, heart-lung preparation, 1947, 150: 739

N-(2-CHLOROETHYL)DIBENZYLAMINE

- inhibition of brain cholinesterase, 1950, 160: 192

 β -CHLOROETHYLMORPHOLINE

- convulsant activity of, 1950, 160: 198

CHLOROFORM ANESTHESIA

- alcohol utilization, 1939, 127: 312
- body temperature, 1942, 137: 260
- carbohydrate metabolism, 1938, 122: 759
- serum amylase and liver esterase, 1938, 124: 149

CHLOROTHEN

- nerve fiber, 1951, 164: 516

CHOLAGOGUES

- biliary excretion, 1946, 146: 298

CHOLECYSTOKININ

- enzymatic inactivation, 1941, 134: 733
- gall bladder, and sex hormones, 1941, 132: 132
- response of gall bladder muscle to, 1938, 124: 379

CHOLERESIS

- excretion of bilirubin, 1941, 132: 176

CHOLERETIC AGENTS

- rate of biliary excretion, 1948, 154: 507

CHOLESTERIN GLAND: see BROWN ADIPOSE TISSUE**CHOLESTEROL**

- acetylcholine synthesis, 1947, 148: 422
 - adrenal glands, following burns, 1945, 144: 664
 - amount absorbed and organ weights, 1946, 145: 551
 - ascorbic acid metabolism, 1951, 166: 376
 - capillary permeability, 1948, 154: 16
 - ester, of hepatic bile, chronic fistula, 1945, 145: 187
 - excretion of, in bile, 1939, 126: 120; 1950, 162: 577
 - experimental lipemia and hypercholesterolemia, 1946, 145: 662
 - feeding, lipid metabolism, anemia, 1947, 149: 1
 - growth of fish, 1940, 129: 216
 - hyper, of blood, experimental production, 1946, 145: 660
 - in radiation syndrome, 1951, 165: 34
 - irradiation, 1950, 162: 705
 - of bile and gall-bladder activity, 1940, 129: 272
 - of blood, bile cholesterol, 1940, 129: 274
 - genetic factors, 1950, 163: 410
 - of blood serum of Eck fistula dogs, 1941, 133: 566
 - of hepatic bile, chronic fistula, 1945, 145: 187
 - of liver during regeneration, 1949, 157: 138
 - of liver and serum with cholesterol feeding, 1947, 149: 4
 - of mitochondria during regeneration, 1949, 157: 139
 - of muscle, stimulation, 1938, 121: 603
 - of plasma, radiation syndrome and, 1951, 165: 43
 - of serum, ascorbic acid and, 1951, 166: 377
 - protein deficiency, 1946, 145: 664
 - thyroidectomy, 1940, 131: 317
 - of various tissues, 1938, 122: 73
 - production and excretion, 1951, 164: 789
 - protein deficiency, 1946, 145: 649
 - total, glutathione, 1951, 164: 770
- CHOLESTEROL DIET (HIGH)**
- anemia after splenectomy, 1947, 149: 1

CHOLINE

- blood flow, 1944, 142: 66
 - deficiency, ACTH production, 1950, 162: 375
 - bile volume and composition, 1951, 164: 274
 - blood pressure of the rat, 1947, 148: 560
 - hypertension produced by, 1950, 162: 189
 - renal hypertension, 1950, 162: 375
 - deneration atrophy of bone and muscle, 1945, 143: 681
 - erythrocyte count, 1944, 142: 66
 - experimental polycythemia, 1939, 127: 322; 1948, 154: 513
 - fatty livers, 1938, 122: 67
 - hemolytic anemia from, 1945, 144: 444
 - hyperchromic anemia due to, 1944, 142: 402; 1946, 147: 404
 - lard and, erythrocyte count, 1944, 142: 214
 - limulus heart, 1942, 136: 190
 - of plasma, pancreatic juice, 1947, 148: 241
 - of serum, fluctuations in women, 1949, 158: 345
 - renal hypertension, 1950, 162: 370
 - serosa and mucosa of the intestine, 1947, 148: 720
 - serum phosphatase, liver function, 1943, 139: 643
 - stimulation of gastric secretion, 1938, 122: 119
 - temperature and requirement, 1947, 149: 376
- CHOLINE OXIDASE**
- of liver, 1938, 121: 55
- CHOLINE, ACETYL: see ACETYLCHOLINE**
- CHOLINESTERASE**
- activity and erythrocyte age, 1949, 158: 72
 - adrenaline and action, 1949, 158: 327
 - cortical activity, 1948, 153: 114
 - folic acid, liver extract, 1948, 152: 309
 - hydrogen ion concentration, 1945, 144: 126
 - in nervous integration and respiration, 1945, 144: 126
 - inhibition of, 1950, 160: 187
 - by bile salts, 1942, 137: 599
 - kinetics of, in blood and spinal fluid, 1939, 126: 180
 - of blood, activity of, 1939, 126: 183
 - of blood and brain, 1949, 157: 82
 - of brain, 1948, 153: 436; 1948, 155: 56
 - antipyrine, 1949, 157: 287
 - of central nervous system, 1941, 132: 588
 - of chick retina, 1947, 148: 42
 - of degenerating and regenerating nerves, 1946, 146: 248
 - of liver mitochondria, 1951, 165: 620
 - of lymph and lymphoid tissue, 1947, 150: 748
 - of plasma, 1949, 157: 82
 - of plasma and tissues, 1948, 154: 495
 - of rat tissue, 1947, 148: 677
 - of serum, 1947, 148: 677
 - agene intoxication and, 1949, 159: 298
 - in hyperchromic anemia, 1946, 147: 407
 - synthesis in liver, 1947, 148: 677
 - of two fragments in homogenated dog brain, 1948, 155: 60
 - of vertebrate nervous system, 1945, 143: 690
 - parasympathetic sensitization in eye, 1941, 132: 444
 - regeneration of, 1947, 149: 550; 1949, 157: 82
 - use in shock, 1945, 143: 552
 - various drugs, 1947, 151: 347

CHORDA TYMPANI

- sensitivity of submaxillary gland, 1942, 135: 52'
- stimulation of, electrolyte changes in submaxillary glands, 1941, 135: 167
- partition of nitrogen in submaxillary saliva, 1940, 129: 540
- submaxillary secretion, 1941, 134: 447

CHRISTENSEN, W. R., Long term acclimatization to heat, 1947, 148: 86

— See **FERRIS, B. G., JR.**

— See **LOGAN, M. A.**

CHRISTIAN, J. E.: see **LUX, R. E.**

CHRISTOFFERSON, J. W.: see **DANFORD, H. G.**

CHRISTOPHERSON, A. R.: see **WOODBURY, L. A.**

CHROMATIN

- incorporation into liver nuclei, 1945, 143: 236
- mitosis, 1945, 143: 229

CHROMATOLYSIS

- interaction of spinal motoneurons, 1949, 159: 233
- oxygen consumption of spinal cord, 1944, 141: 421

CHROMIC PHOSPHATE

- colloidal, disappearance from blood, 1951, 165: 591

CHROMODACTYORHESIS

- production by electrical stimulation, 1949, 159: 253

CHRONAXIE

- of normal and denervated muscles, 1939, 127: 609
- ventricular fibrillation, 1940, 131: 104

CHU, H.-N.: see **Hsu, S.-H.**

CHU, H.-Y., Ciliary movement and cerebrospinal circulation, 1942, 136: 223

CHU, W., Pregnancy test utilizing frogs and toads, 1950, 163: 294

CHUB

- oxygen consumption of retina in, 1943, 139: 13

CHUMLEY, J.: see **LAWSON, H. C.**

CHURNEY, L., ASHMAN, R. and BYER, E. Electrogram of heart strip, 1948, 154: 241

CHUTE, A. L. and WATERS, E. T. Crotalin and plasma histamine of rabbit, 1941, 132: 552

CHYLE

- hemolytic action, 1940, 130: 724

CHYLOMICRA

- composition and fate, 1951, 167: 403
- intravenous heparin and, 1951, 167: 403

CHYMOTRYPSIN

- blood coagulation, 1945, 143: 647
- blood sugar in vivo, 1945, 143: 278
- injected, blood pressure, 1945, 143: 650
- insulin in vitro, 1945, 143: 278
- shock produced, 1945, 143: 644

CICARDO, V. H. Release of phosphate by brain upon stimulation, 1946, 145: 542

CIERESKO, L. S.: see **BOSSHARDT, D. K.**

CILIARY MUSCLES

- nervous control, 1939, 127: 602

CINCHONIDINE

- renal hyperemia, 1947, 148: 686

CINCHONINE

- renal hyperemia, 1947, 148: 686

CINCHONINIC ACIDS

- 2-HYDROXY, antidiuretic activity, 1951, 164: 51

2-HYDROXY-3-METHYL, antidiuretic activity, 1951, 164: 51

3-HYDROXY-2-METHYL, antidiuretic activity, 1951, 164: 51

2-HYDROXY-3-PHENYL, antidiuretic activity, 1951, 164: 51

3-HYDROXY-2-PHENYL, antidiuretic activity, 1951, 164: 51

potassium secretion, 1950, 161: 154

CINCHOPHEN

biliary response, 1948, 154: 507; 1951, 165: 684

duodenal secretion, 1950, 162: 110

hepatic blood flow, 1941, 132: 381

pancreatic secretion, 1950, 163: 34

succinic oxidase-succinoxidase inhibition and suppression of renal tubular mechanisms, 1951, 166: 110

CIPRIANI, A.: see **JASPER, H.**

CIRCULATION

acute arteriovenous fistula, 1949, 158: 103

acute methemoglobinemia, 1943, 139: 64

adrenal crisis, 1951, 165: 306

adrenaline, 1942, 136: 89

anoxia, 1946, 146: 326; 1948, 153: 89

arising, 1941, 134: 406

capillary, distribution of blood perfusates in, 1940, 130: 512

capillary pressure, 1947, 149: 393

carbon arc irradiation, 1943, 139: 604

carotid chemoreceptors, 1939, 127: 178

climate, 1940, 129: 105

CO poisoning, 1941, 134: 683

collateral, development, 1941, 132: 351

dynamics, 1944, 140: 726

cough and strain, 1944, 141: 42

differences in stomach, secretion and motor activity of, 1943, 138: 309

dry heat, 1943, 139: 583

exercise, 1941, 135: 29

experimental pulmonary arteriovenous fistula, 1951, 165: 513

force and time elements in changes due to acceleration, 1948, 152: 492

hemorrhage, 1950, 161: 106

hibernation, awakening, 1950, 163: 566

histamine subcutaneously, 1944, 142: 161

hypoxemia, 1941, 132: 426

in fetus, 1950, 162: 147

in traumatic shock, 1943, 139: 123

intrathoracic pressure, 1944, 142: 594

intravenous oxygen, 1939, 127: 228

method of controlling hemodynamics of, to limb, 1951, 166: 46

model, 1938, 123: 645

indicating control of capillary pressure, 1947, 149: 390

of cognate and collateral system, 1944, 140: 727

muscle activity, 1948, 153: 183

muscle training, 1941, 132: 390

muscular fatigue, 1950, 163: 561

observation years after sympathetic ganglionectomy, 1943, 139: 351

- of brain, 1943, 140: 191
restriction, 1943, 139: 661
peripheral, cerebral cortex, 1938, 121: 49
 posture, 1939, 127: 573
 reactions with ergotoxine, hyper- and hypothermia, 1950, 163: 62
peripheral vascular hypotonia, development in scurvy, 1947, 149: 472
positive and negative accelerations, 1949, 156: 1
positive pressure breathing, 1947, 151: 258; 1947, 151: 270
rapid transfusion or hemorrhage, 1951, 164: 351
relative velocity of red cells and plasma, 1949, 157: 153
renin and angiotonin, 1944, 141: 129
standing, 1938, 124: 457
stimulation of the vagus and carotid sinus, 1946, 146: 414
streamline pattern of blood flow, 1947, 150: 52
sympathectomy, 1947, 133: 70
vertical ballistocardiograph, 1941, 134: 403
- CIRCULATION TIME**
acute anoxia, 1943, 138: 593
as measured by acetylcholine, 1947, 150: 505
 by fluorescein and cyanide in traumatic shock, 1947, 148: 72
comparison of values with acetylcholine, sodium cyanide, and fluorescein, 1947, 150: 508
hemorrhagic shock, 1944, 140: 680
new method for determining, 1946, 146: 412
phosgene gassing, 1946, 147: 333
posture, 1939, 125: 482
seasonal variation, 1947, 148: 457
temperature and, in chick, 1948, 152: 383
through aerated and atelectatic lung, 1941, 132: 93
- CIRCULATORY FAILURE**
adrenal steroids in, 1942, 136: 569
after arterial stimulation, 1944, 141: 722
after trauma to adrenalectomized animal, 1938, 124: 22
carotid back pressure, 1946, 146: 475
following hemorrhagic hypotension and hemorrhagic shock, 1942, 136: 409
in adrenaline shock, 1938, 123: 668
in phosgene gassing, 1946, 147: 329
in shock, prevention of, 1941, 132: 249
inferior vena cava flow, 1947, 148: 745
prophylactic effect of desoxycorticosterone, 1941, 134: 426
- CIRRHOSES**
body water in, 1950, 162: 315
proteins of cisternal lymph in, 1951, 164: 117
protein fractions of lymph and, 1951, 164: 119
- CISLER, LILLIAN E.:** *see* FOLTZ, E. E.
CISNEROS, F.: *see* WILBURNE, M.
- CITRATE**
as substrate for perfused rat heart, 1949, 158: 272
blood coagulation, 1940, 128: 401; 1940, 130: 576
calcium response to nephrectomy, 1950, 160: 335
coagulant action of trypsin, 1939, 126: 662
muscle contraction, 1946, 145: 420
response to epinephrine, 1943, 140: 372
serum, urinary calcium, 1950, 160: 330
tetany produced by, 1942, 137: 461
thyroparathyroidectomy and vitamin D, 1950, 160: 341
- CIZEK, L. J. and HOLMES, J. H.** Osmotic diuresis and excretion, 1950, 160: 536
— **HUANG, K. C.** Water diuresis in the salt-depleted dog, 1951, 167: 473
— **ZUCKER, MARJORIE B.** Plasmapheresis and renal clearances, 1950, 162: 153
— **SEMPLE, R. E., HUANG, K. C. and GREGERSEN, M. I.** Salt depletion and water intake, 1951, 164: 415
— *See* HOLMES, J. H.
— *See* ZUCKER, MARJORIE B.
CLARE, F. B.: *see* CRESS, C. H.
CLARK, B. B., VAN LOON, E. J. and ADAMS, W. L. Acute methemoglobinemia produced by aniline, 1943, 139: 64
— *See* ADAMS, W. L.
CLARK, D. E., EILERT, MARY LOU and DRAGSTEDT, L. R. Lipotropic action of lipocaic, 1945, 144: 620
— *See* DRAGSTEDT, L. R.
— *See* JULIAN, O. C.
CLARK, G. Anterior hypothalamic lesions and sexual behavior, 1942, 137: 746
— Effects of inanition on temperature regulation, 1938, 122: 646
— Temperature regulation in chronic cervical cats, 1940, 130: 712
— **WANG, S. C.** Pressor hormones from hypothalamus, 1939, 127: 597
— **WARD, J. W.** Response to cortical stimulation, 1949, 158: 474
— *See* GOLDZBAND, M. G.
— *See* WANG, S. C.
CLARK, J. K.: *see* BRUNER, H. D.
CLARK, JANET H. Parathyroid hormone and permeability of lens capsule, 1939, 126: 136
CLARK, K. J.: *see* BOYD, E. M.
CLARK, R. T., JR. Oxidation of carbon monoxide, 1950, 162: 560
— **STANNARD, J. N. and FENN, W. O.** Burning of CO to CO₂ by isolated tissues, 1950, 161: 40
— *See* HOFFMAN, C. E.
— *See* POWERS, E. B.
CLARK, S. L. and WARD, J. W. Cortical stimulation and duration of response, 1941, 131: 650
— *See* KENNEDY, J. A.
CLARK, W. G. and CLAUSEN, D. F. Dietary choice and appetite of adrenalectomized rats, 1943, 139: 70
— **McKAY, E. M.** Adrenalectomy and intestinal absorption of glucose, 1942, 137: 104
— *See* AGRESS, C. M.
— *See* MACKEY, E. M.
CLARKE, A. P. W.: *see* CLEGHORN, R. A.
CLARKE, B. G., IVY, A. C. and GOODMAN, D. Intestinal fat absorption, 1948, 153: 264
CLARKE, ELEANOR and SELYE, H. Overt and masked actions of steroids, 1943, 139: 99
CLARKE, GEORGENA J.: *see* BISCHOFF, F.

- CLARKE, R. W. Water distribution and sexual skin of baboon, 1940, 131: 325
- MARSHALL, C. S. and NIMS, L. F. Blood pH during decompression, 1944, 142: 483
- See BALDWIN, D.
- See LANGLEY, L. L.
- See SMITH, H. W.
- See TALSO, P. J.
- CLAUSEN, D. F.: see CLARK, W. G.
- CLAUSEN, F. W.: see BLUMENFELD, C. M.
- CLAXTON, E. B.: see NICHOL, J. T.
- CLAY, H. L. and LAWSON, H. C. Hyperglycemic principle in diabetic urine, 1939, 125: 566
- CLEARANCE TECHNIQUES
used to measure liver function, 1950, 163: 54
- CLEGHORN, R. A. Blood pressure in adrenal insufficiency, 1939, 128: 133
- ARMSTRONG, C. W. J., AUSTEN, D. C. and McVICAR, G. A. Sympathin liberation in adrenal insufficiency, 1941, 132: 542
- FOWLER, J. L. A., GREENWOOD, W. F. and CLARKE, A. P. W. Pressor responses in adrenalectomized dogs, 1950, 161: 21
- See BONNYCASTLE, D. D.
- See FOWLER, J. L. A.
- CLIFFTON, E. E. and YOUNG, L. E. Antiproteolytic activity and peptic ulcers, 1950, 160: 348
- See RUSH, B., JR.
- CLINE, W. W.: see CHAMBLISS, J. R.
- CLINTON, M., JR.: see DORRANCE, S. S.
- CLISBY, KATHRYN H.: see RICHTER, C. P.
- CLOACA
water balance, 1942, 136: 661
- CLONUS
cortical, control of, 1942, 137: 681
- CLOTHING
energy balance in extreme cold, 1947, 149: 223
thermal responses and sweating in extreme cold, 1947, 149: 209
- CLOWES, G. H. A., JR. and MACPHERSON, L. B. Pancreatic-duct ligation and fatty livers, 1951, 165: 628
- CO TUI: see SHAPIROFF, B. G. P.
- COBALT
absorption and elimination, 1951, 164: 221
ascorbic acid, 1940, 129: 144
blood building, 1941, 134: 746
effects, 1943, 139: 399
growth at high altitudes, 1951, 166: 394
increased intake of, blood, 1945, 144: 464
of blood, rate of elimination of, 1951, 164: 221
of plasma, 1945, 145: 288
polycythemia, choline, 1948, 154: 513
polycythemia due to, 1940, 128: 347; 1940, 130: 373; 1944, 142: 173
radioactive, elimination in pancreatic juice and bile, 1945, 145: 288
synovial membrane potential, 1949, 158: 64
- COBB, DORIS M.: see FENN, W. O.
- COBEFRIN
conjugation, excretion, and failure of deamination, 1945, 144: 321
intestinal motility, 1939, 126: 241
- COBURN, FRANCES F. and ANNEGERS, J. H. Cholate synthesis and diet, 1950, 163: 48
- COCAINE
acetylcholine vasopressor effect, 1940, 130: 348
asphyxial depolarization potential, 1950, 160: 453
blood flow in bronchial artery, 1947, 148: 662
electric responses of smooth muscle, 1942, 137: 270
epinephrine potentiation by, 1944, 142: 615
intestinal motility and, 1944, 141: 463; 1944, 142: 615
nerve-free smooth muscle of chick amnion, 1940, 131: 531
nervous stimulation, adrenaline of nictitating membrane, 1940, 128: 696
normal and denervated submaxillary gland to, 1939, 125: 677
renal pressor substances, 1938, 124: 84
respiration, 1938, 123: 766
- COCARBOXYLASE
as measured by bisulfite-binding substances in blood, 1944, 141: 647
frog ventricle, 1942, 135: 464
- COCCIDIOSIS
blood chlorides, 1941, 134: 21
- COCHLEA: see EAR
- COCO, R. M. Fetal survival following injection of antuitrin-S, 1942, 137: 143
- See STUCKEY, JOSEPHINE
- COD LIVER OIL
improvement of appetite and activity of animals on corn, 1943, 139: 147
- CODE, C. F. Histamine and anaphylactic shock in guinea pig and dog, 1939, 127: 78
- HESTER, H. R. Histamine and anaphylactic shock in horse and calf, 1939, 127: 71
- JENSEN, J. L. Histamine content of blood and bone marrow, 1941, 131: 768
- VARCO, R. L. Prolonged action of histamine, 1942, 137: 225
- HALLENBECK, G. A. and GREGORY, R. A. Histamine content of gastric juice, 1947, 151: 593
- See DWORETZKY, M.
- See HALLENBECK, G. A.
- See KOTTKE, F. J.
- See SHELLEY, W. B.
- See TRACH, B.
- CODIE, J. F.: see SCHEER, B. T.
- COELIAC NERVES
recovery of responsiveness, 1938, 123: 313
- COGSWELL, R. C., JR., BERRYMAN, G. H., HENDERSON, C. R., DENKO, C. W. and SPINELLA, JANE R. Dietary restrictions in man and efficiency, 1946, 147: 39
- HENDERSON, C. R. and BERRYMAN, G. H. Training and response to physical fitness tests, 1946, 146: 422
- See BERRYMAN, G. H.
- COHN, A. E.: see BURCH, G. E.
- See NEUMANN, C.
- COHN, C. and KOLINSKY, MURIEL. Kidney gluconeogenesis, 1949, 156: 345

- SOSKIN, S. NaCl and oxygen use by dogs, 1943, 139: 80
- , KATZ, B. and KOLINSKY, MURIEL. Renal gluconeogenesis in intact dog, 1951, 165: 423
- , LEVINE, R. and KOLINSKY, MURIEL. Removal of BSP from blood, 1948, 155: 286
- , LEVINE, R. and SOSKIN, S. NaCl and O₂ consumption of muscle, 1943, 139: 84
- , LEVINE, R. and STREICHER, D. Recovery of intravenously injected BSP from bile, 1947, 150: 299
- COHN, D. V.: *see* HANDLER, P.
- COHN, ESSIE W. and D'AMOUR, F. E. Effect of altitude and cobalt on rats, 1951, 166: 394
- COHN, LAURA *see* KOCHAKIAN, C. D.
- COHN, R. and PARSONS, H. Hypertension and shock, 1950, 160: 437
- COHN, W. E.: *see* GREENBERG, D. M.
- COITUS
excitation of pituitary, 1938, 121: 157
- COLBY, R. W. and FRYE, C. M. Calcium, potassium and magnesium for rats, 1951, 166: 209
- FRYE, C. M. High protein and calcium for rats, 1951, 166: 408
- , RAU, F. A. and COUCH, J. R. Animal protein factor concentrate and lambs, 1950, 163: 418
- *See* COUCH, J. R.
- COLCHICINE
as method of studying crop-sac epithelium, 1938, 123: 614
- COLD
absence of vasoconstrictor reflexes for in forehead, 1942, 136: 692
- acclimatization to, 1947, 150: 99; 1951, 165: 481; 1951, 167: 644; 1951, 167: 651
- adrenal cortex, 1949, 156: 368
- adrenalectomy and response to, 1938, 122: 435; 1944, 141: 653
- adrenals and, response to, 1938, 121: 178
- anesthesia and stress response to, 1950, 160: 499
- arterial reactions of finger to, 1942, 136: 680
- blood flow in forearm and hand, 1947, 150: 187
- blood flow-volume relation in skin, 1947, 150: 128
- blood glutathione and, 1951, 165: 575
- clothing and energy balance in, 1947, 149: 223
- diet and tolerance, 1946, 146: 73; 1946, 146: 84; 1946, 146: 538; 1949, 159: 34
- energy metabolism, water balance, 1948, 152: 233
- excretion of various vitamins, 1946, 146: 550
- experimental hypertension, 1951, 166: 533
- exposure to, 1948, 152: 242
- extreme, thermal responses and sweating, 1947, 149: 204
- fasting pigeon, 1950, 161: 300
- food selection, 1947, 150: 331
- heart rate, 1944, 142: 693
- in nasopharyngeal passages, cervical lymph flow and, 1940, 128: 352
- increased sensitivity to potassium, 1947, 151: 366
- infant rats, 1948, 155: 355
- iodine metabolism, 1944, 140: 673
- lanatoside C and resistance to, 1947, 151: 221
- lethal immersion, 1948, 155: 378
- metabolic responses to, thyroid and, 1950, 163: 81
- nerve response, 1941, 134: 703
- pituitary and adrenal cortex in resistance to, 1942, 136: 25
- psychomotor performance, 1946, 146: 78
- resistance against, 1938, 123: 762
- of spermatozoa, 1944, 141: 621
- to G forces, 1946, 146: 43
- reversible effects on isolated tissue, 1943, 139: 193
- serum potassium, 1940, 129: 246
- skin temperature responses to, 1945, 144: 724
- static receptors of labyrinth, 1944, 141: 404
- sympathectomized dog, 1939, 125: 532
- T wave of electrocardiogram, 1941, 131: 700
- temperature regulatory responses to, 1940, 128: 739
- thyroid activity and, 1939, 125: 244; 1940, 130: 549
- tolerance to, in infant rats, 1948, 155: 366
- of chickens, 1946, 147: 531
- vascular reaction of finger to, 1942, 136: 669
- vasoconstriction due to after denervation, 1948, 155: 165
- viability and metabolism of spermatozoa, 1940, 128: 414
- water shifts, 1943, 140: 9
- COLE, C. D.: *see* GRIFFITH, F. R., JR.
- COLE, H. H. and GOSS, H. Gonadotropic hormone in the non-pregnant mare, 1939, 127: 702
- HART, G. H. Effect of pregnancy and lactation on growth, 1938, 123: 589
- *See* KLEIBER, M.
- COLE, K. S.: *see* KING, B. G.
- COLE, P. A.: *see* HANEY, H. F.
- COLE, V. V.: *see* STERN, T. N.
- COLE, W. H., ALLISON, J. B., MURRAY, T. J., BOYDEN, A. A., ANDERSON, J. A. and LEATHEM, J. H. Composition of the blood of rabbits in gravity shock, 1944, 141: 165
- *See* ALLISON, J. B.
- *See* ROOT, W. S.
- COLEMAN, D. H.: *see* GREEN, D. M.
- COLEMAN, H. W.: *see* HAMILTON, W. F.
- COLFER, H. F. and ESSEN, H. E. Electrolyte, Na, K changes in brain in convulsions, 1947, 150: 27
- COLLAGEN
of cartilage, 1951, 166: 331
- of muscle, 1946, 145: 575; 1946, 145: 584
- COLLENTINE, G. E.: *see* QUICK, A. J.
- COLLIGNON, U. J.: *see* SCOTT, V. B.
- COLLINGS, W. D.: *see* RALSTON, H. J.
- *See* REMINGTON, J. W.
- *See* SWINGLE, W. W.
- COLLINS, D. A. and HAMILTON, ANGIE S. Pressor responses following renal ischemia, 1940, 130: 784
- HAMILTON, ANGIES. Renin-angiotonin system in hemorrhagic shock, 1944, 140: 499
- WOOD, E. H. Experimental renal hypertension and adrenalectomy, 1938, 123: 224
- *See* HAMILTON, ANGIE S.
- *See* WOOD, E. H.
- COLLINS, E. J.: *see* SWINGLE, W. W.
- COLLINS, R.: *see* SCHNEIDER, E. C.

COLLINS-WILLIAMS, JEAN: *see* WRENSHALL, G. A.

COLLIP, J. B.: *see* NOBLE, R. L.

COLLOIDS

absorption from obstructed gall bladder, 1940, 129: 705

COLON

bile and motility of, 1938, 121: 130

contents during fasting, 1945, 143: 563

correlation of activity and transportation, 1940, 128: 517

distention as a factor in inhibiting bile flow, 1943, 138: 462

enterocrinin in, 1938, 121: 483

gas transfer between and blood, 1948, 153: 475

motility in, 1940, 130: 69

hemorrhage, 1946, 146: 451

morphine, 1940, 131: 428

motor innervation of, 1942, 138: 83

pituitary extracts, 1938, 123: 400

stimulation of forebrain areas, 1946, 146: 190

transportation force, 1940, 130: 69

COLOR BLINDNESS: *see* COLOR VISION

COLOR VISION

dark adaptation, 1946, 146: 689

tests for, vitamin A intake, 1944, 140: 578

COLOSTRUM

protein of heart, kidney, liver, 1940, 129: 687

COLSON, G. M.: *see* HAMILTON, W. F.

COLWELL, A. R., JR. Bile and choline deficiency, 1951, 164: 274

— Pancreatic secretion, 1951, 164: 812

COMA

as results of arrest of brain circulation, 1941, 132: 737

COMMON ILIAC ARTERIES

exercise and blood flow in, 1940, 128: 341

COMPOUND E.: *see* CORTISONE

COMPRESSION

alveolar gas tension, 1950, 161: 417

COMPRESSION SHOCK: *see* SHOCK, TRAUMATIC

COMROE, J. H., JR. Chemoreceptors of the aorta, 1939, 127: 176

— Direct stimulation of respiratory center, 1943, 139: 490

— DRIPPS, R. D. O₂ tension of arterial blood and alveolar air in man, 1944, 142: 700

— SCHMIDT, C. F. Carotid body reflexes and regulation of respiration, 1938, 121: 75

— SCHMIDT, C. F. Hyperpnea of exercise and reflexes from limbs, 1943, 138: 536

— WALKER, PATRICIA. Normal arterial oxygen saturation, 1948, 152: 363

— *See* DRIPPS, R. D.

— *See* WATT, J. G.

COMSA, J. Adrenaline and thyroidectomy, 1950, 161: 550

— Thymus hormone, 1951, 166: 550

CONARD, R. A. X-irradiation and intestinal motility 1951, 165: 375

CONCUSSION

bulbar mechanism, 1946, 146: 344

motor and supranuclear mechanism in, 1944, 141: 117

polarizability of brain, 1946, 146: 12

production in experimental animals, 1944, 141: 117

water, nitrogen and electrolyte of brain, 1949, 156: 129

CONDITIONED REFLEXES

auditory, in cortical ablation experiments, 1945, 144: 415

cardiac slowing as, 1943, 139: 550

cerebral cortex, 1947, 151: 325

cerebral differentiated irradiation, 1942, 136: 788

cerebral lesions, 1946, 147: 454

comparison of avoidance and nonavoidance conditioning, 1946, 145: 433

cord lesions, 1951, 166: 176

escape and avoidance in dogs, 1946, 146: 282

gastric secretion to histamine, 1939, 128: 10

in young puppies, 1950, 160: 462

olfactory, ablation of piriform amygdaloid areas and hippocampi, 1941, 132: 81

lesions, 1940, 128: 754; 1941, 132: 81

motor centers, 1938, 121: 657

prefrontal brain lesions, 1949, 159: 525

prefrontal lobectomy, 1943, 139: 525

produced by pilocarpine, 1938, 124: 679

repetity and recovery of excitability, 1938, 123: 335

salivary, hunger, 1938, 123: 379

in atropinized dogs, 1938, 124: 136

to position and angular acceleration, 1939, 125: 265

CONDITIONING: *see* CONDITIONED REFLEXES

CONDUCTANCE

radiation, convection, 1938, 124: 56

CONDUCTION: *see* NERVE CONDUCTION

CONGER, R. M.: *see* SMITH, ERMA A.

CONGESTION

of lungs, distensibility of lungs, 1947, 150: 654

of veins, cervical lymph pressure, 1939, 127: 156

of veins and lymphatics, rate of absorption, 1940, 130: 419

potassium in heart, 1938, 123: 443

CONKLIN, RUTH E. Circulatory and respiratory reflexes during tipping, 1946, 147: 661

— *See* GILLILAN, LOIS A.

— *See* SMISTER, THELMA H.

CONLEY, C. L. Ether anesthesia and plasma volume, 1941, 132: 796

— NICKERSON, J. L. Temperature change and water balance in man, 1945, 143: 373

CONN, H. L. and MARKLEY, K. Measurement of renal blood flow, 1950, 160: 547

— *See* MOYER, J. H.

CONNECTIVE TISSUE: *see* TISSUE, connective

CONSCIOUSNESS

at high altitudes, blood oxygen saturation, 1946, 145: 686

CONSOLAZIO, F. C.: *see* ASMUSSEN, E.

— *See* BARMAN, J. M.

— *See* CHIODI, H. P.

— *See* EGAÑA, E.

— *See* JOHNSON, R. E.

- See MOREIRA, M. F.
 — See PITTS, G. C.
 CONSOLAZIO, W. V., FISHER, M. B., PACE, N., PECORA, L. J., PITTS, G. C. and BEHNKE, A. R. Effects of high CO₂ in man, 1947, 151: 479
 — See PACE, N.
 — See TALBOTT, J. H.
 CONSTANT INFUSION TECHNIC
 measurement of extracellular fluid, 1950, 160: 526
 CONSTITUTION: *see* BODY CONSTITUTION
 CONSTRICTION
 external, blood flow, 1944, 141: 295
 CONTRACTILE FORCE: *see* CONTRACTION, force of
 CONTRACTILITY
 anoxia, 1950, 162: 88
 CONTRACTION
 force of, of mammalian heart muscle, 1951, 164: 234
 reflex, carotid body, 1938, 123: 677
 time, denervation, 1947, 150: 705
 tracer phosphorus studies, 1940, 129: 229
 CONTRAST DISCRIMINATION
 alveolar air composition, 1946, 146: 211
 CONTRERAS, L. A.: *see* JOHNSON, R. E.
 CONVECTION
 fluid in endoneural spaces of nerves, 1945, 143: 521
 of heat during work, 1941, 134: 664
 skin temperature, 1938, 124: 54
 CONVULSIONS
 acetylcholine of brain and, 1949, 159: 251; 1950, 162: 469
 acetylcholine and cholinesterase of brain, 1941, 132: 588
 acid-base change, 1948, 153: 580
 after decompression from high oxygen, 1945, 143: 658
 anoxia, 1950, 162: 503
 CO₂ and carotid sinus reflexes in, 1942, 137: 404
 body temperature, 1948, 154: 207
 carotid sinus reflexes, 1942, 137: 396
 electrolyte changes in cortex in, 1947, 150: 27
 experimental production of, 1949, 156: 117
 hypoglycemic, adrenal cortex, 1942, 137: 655
 induced by β -chlorinated amines, 1950, 160: 195
 vago-insulin and sympatheticoadrenaline systems under, 1940, 131: 281
 COOK, D. L., BEACH, DORIS A., BIANCHI, R. G., HAMBOURGER, W. E. and GREEN, D. M. Factors influencing bile flow, 1950, 163: 688
 COOK, ELLEN T., DYE, J. A. and McCANDLESS, ESTHER L. Pancreatic diabetes in the calf, 1949, 156: 349
 COOK, EVELYN V.: *see* CULLEN, S. C.
 COOK, S. F. and SEARS, W. N. Radioactive gases in study of cardio-vascular system, 1945, 144: 164
 — STRAJMAN, E. Decompression and metabolism during and after exercise, 1945, 144: 637
 —, SOUTH, F. E., JR. and YOUNG, D. R. Helium and gas exchange, 1951, 164: 248
 — See BERG, W. E.
 COOKE, W. T.: *see* BARCLAY, J. A.
 COOLING: *see* HYPOTHERMIA
 COOMBS, F. S.: *see* TALBOTT, J. H.
 COON, J. M., NOOJIN, R. O. and PFEIFFER, C. Saline diuresis, 1941, 134: 723
 COOPER, F. W., JR.: *see* NICKERSON, J. L.
 COOPER, W.: *see* ALLARDYCE, J.
 COPE, O., BRENNER, A. G., JR. and POLDERMAN, H. Capillary permeability and adrenal cortex, 1942, 137: 69
 —, HAGSTRÖMER, A. and BLATT, HESTER. Blood serum amylase after hypophysectomy, 1938, 122: 428
 COPLEY, A. L. Specificity of thrombin action, 1939, 126: 310
 — Thromboplastic activity of brain and skin extracts, 1942, 137: 178
 — LALICH, J. J. Hemophilia-like condition in heparinized mice, 1942, 135: 547
 — SCHNEDORF, J. G. Renal excretion of intravenous heparin, 1941, 133: 562
 COPPER
 augmentation of gonadotropins by, 1938, 121: 765
 deficiency, anemia in rabbits, 1944, 142: 180
 hemoglobin level, 1946, 145: 503
 induction of pseudopregnancy with, 1942, 135: 587; 1943, 139: 135
 ions, synovial membrane potential, 1949, 158: 64
 necessity of, for cytochrome oxidase, 1941, 131: 584
 primary potential of, 1949, 159: 86
 radioactive, fluid convection in endoneural nerve spaces, 1945, 143: 521
 stimulation of erythropoiesis by, 1944, 142: 180
 synovial membrane potential, 1949, 158: 64
 thiols and potentials produced by, 1949, 159: 85
 COPPER SULFATE: *see* SULFATES, Cu
 COPROPHAGY
 as a source of the vitamin B complex, 1945, 143: 347
 COR PULMONALE
 acute, produced with special cardiac catheters, 1951, 164: 254
 CORAMINE: *see* NIKETHAMIDE
 CORBIN, K. B. *see* HARRISON, F.
 CORCORAN, A. C. and PAGE, I. H. Angiotonin and renal function, 1940, 130: 335
 — PAGE, I. H. Barbitol anesthesia, renal function and blood pressure, 1943, 140: 234
 — PAGE, I. H. Renal blood flow and clearance, 1939, 126: 354
 — PAGE, I. H. Renal blood flow in experimental renal hypertension, 1942, 135: 361
 — PAGE, I. H. Renin and renal function, 1940, 129: 698
 —, MASSON, G. M. C., REUTING, RUTH and PAGE, I. H. Measurement of renal functions, 1948, 154: 170
 —, SMITH, H. W. and PAGE, I. H. Excretion of diodrast by explanted kidney, 1941, 134: 333
 — See HERRICK, J. F.
 — See MASSON, G. M. C.
 COREY, E. L. Comparison of ovarian and cortico-adrenal substances, 1941, 132: 446
 — Explosive decompression injury, 1947, 150: 607
 — Factors in explosive decompression, 1949, 157: 88

- COREY, E. L. and BRITTON, S. W. Antagonism of desoxycorticosterone & post-pituitary extract, 1941, 133: 511
- BRITTON, S. W. Hypophyseal and adrenal inter-relationships, 1939, 126: 148
- BRITTON, S. W. Liver glycogen, corticoadrenal extract, insulin, etc., 1941, 131: 783
- LEWIS, E. G. Etiology and decompression injury, 1950, 162: 452
- , SILVETTE, H. and BRITTON, S. W. Hypophyseal and adrenal influence on renal function, 1939, 125: 644
- See BRITTON, S. W.
- See HALL, W. M.
- See NIELSEN, E. K.
- See WOLF, P. A.
- CORMAN, H. H. *see* BANUS, M. G.
- CORN
- appetite, activity, 1943, 139: 147
- nutritive value of, fat from, 1947, 148: 47
- rabbit ovulating factor from, 1944, 142: 487
- vitamin D, 1943, 139: 693
- CORN GLYCOGEN: *see* STARCH
- CORN OIL
- absorption of, 1942, 136: 712
- CORN STARCH: *see* STARCH
- CORN SYRUP
- thiamin and nutritive value of, 1945, 145: 109
- CORNER, G. W. Uterine bleeding due to hormone deprivation, 1938, 124: 1
- CORNWELL, W. S.: *see* KIMURA, G.
- CORONARY ARTERIES
- development of collateral circulation following occlusion, 1941, 132: 351
- experimental occlusion, electrical alternation in, 1950, 160: 366
- occlusion of, histochemical changes following, 1942, 136: 474
- CORONARY BLOOD FLOW
- after collateral occlusion, 1939, 127: 161
- after denervation, 1943, 138: 684
- after myocardial ischemia, 1939, 126: 284
- after sympathetic nerve stimulation, 1950, 163: 539
- apparatus for measuring, 1950, 163: 136
- artery, differential pressure, 1940, 130: 97
- factors affecting, 1940, 130: 108
- registration and interpretation, 1940, 130: 114
- artery and sinus, 1947, 151: 18
- asphyxia, anoxia, ischemia, 1942, 135: 271
- atropine, 1943, 138: 683
- auricular fibrillation, 1950, 160: 177; 1950, 163: 135
- collateral after venous occlusion, 1938, 124: 435
- control in isolated denervated heart, 1945, 143: 481
- differential pressure curve, 1940, 130: 97
- distribution, 1938, 122: 252
- exercise, 1939, 125: 614
- after denervation, 1943, 138: 689
- extravascular ventricular support, 1938, 122: 236
- factors affecting after sympathetic nerve stimulation, 1950, 162: 266
- heart-lung preparation, 1940, 131: 43
- hemolyzed blood, 1950, 163: 545
- hypotension, 1948, 152: 545
- hypotonic solutions, homologous blood, 1951, 165: 135
- in dog, 1939, 126: 397; 1947, 148: 585
- in isolated mammalian heart, 1939, 125: 467
- in unanesthetized dogs, 1950, 160: 149
- inflow, changes in right and left, 1944, 141: 382
- work load, 1944, 142: 46
- measurement, by nitrous oxide method, 1948, 152: 356
- schematic representation of, 1947, 149: 640
- oxygen consumption, 1950, 160: 149
- protamine sulfate, 1951, 167: 7
- regulation of, in intact anesthetized dog, 1950, 162: 521
- right ventricular pressure, 1943, 139: 726
- salts, 1938, 124: 156
- shock, 1947, 148: 726
- sinus, by catheterization, 1948, 152: 340
- skeletal muscular activity, 1941, 132: 321
- stimulation of stellate ganglion, 1945, 143: 398
- thesbian drainage, 1945, 143: 245
- vagus stimulation, atropine, sympathetic stimulation, 1939, 126: 397
- variation and regulation, 1950, 162: 521
- various factors, 1947, 148: 582
- vessels, cardiac factors, 1940, 130: 126
- CORONARY CIRCULATION
- after coronary vein occlusion, 1938, 124: 444
- cardiac factors affecting, 1940, 130: 126
- collateral blood flow after occlusion, 1939, 127: 161
- importance of thesbian drainage, 1945, 143: 245
- innervation of vessels, 1939, 126: 397
- measurement in dog, 1947, 148: 582
- occlusion, collateral blood flow after, 1939, 127: 161
- of coronary vein, 1938, 124: 444
- ventricular fibrillation following, 1940, 131: 309
- oxygen metabolism of heart, 1947, 149: 638
- CORONARY RESISTANCE
- oxygen consumption, 1947, 149: 642
- CORONARY VEINS
- chronic occlusion, 1939, 128: 180
- CORPORA QUADRIGEMINA
- glycogen content, age, 1946, 146: 390
- glycolysis during growth, 1944, 142: 545
- respiratory rhythmicity, 1939, 127: 659
- CORPUS CALLOSUM
- cholinesterase content, 1948, 155: 61
- CORPUS LUTEUM
- activation, frequency of insemination, 1940, 130: 471
- adrenalectomy and formation, 1938, 123: 237
- differential action of gonadotropic hormones on, 1938, 121: 633
- progesterone and weight, 1942, 135: 570
- CORT, J. H. Post-traumatic anuria, 1951, 164: 686
- CORTELL, RUTH, FELDMAN, J. and GELLHORN, E.
- Acetylcholine and function of central nervous system, 1941, 132: 588
- See FELDMAN, J.
- See GELLHORN, E.
- CORTICAL AREAS 4 and 6: *see* CEREBRAL HEMISPHERES, CORTEX, areas 4 and 6

- CORTICAL POTENTIALS: *see* CEREBRAL HEMISPHERES, CORTEX
- CORTICOSTERONE
 assay of, 1940, 130: 299
 capillary permeability, 1941, 134: 258; 1942, 137: 427
 circulatory failure, 1942, 136: 569
 glycotropic action of, 1939, 128: 274
 ketosis, 1942, 135: 462
 oxygen consumption of brain slices, 1939, 127: 712
- CORTILACTIN: *see* ADRENOCORTICAL HORMONES
- CORTIN: *see* ADRENOCORTICAL HORMONES
- CORTISONE
 acclimatization, 1951, 167: 644
 administration to normal rats, 1951, 166: 171
 capillary permeability, 1942, 137: 427; 1951, 164: 294; 1951, 166: 509
 circulatory failure, 1942, 136: 569
 DCA, 1950, 163: 319
 glycogenesis due to, 1949, 159: 263
 growth of adrenalectomized rats, 1943, 139: 499
 hypoglycemia, 1941, 134: 8
 ionic balance with, 1951, 166: 493
 joint swelling, 1951, 166: 341
 ketosis, 1942, 135: 462
 leukocyte response to, 1951, 166: 524
 metabolism, 1941, 132: 670
 sodium transport and, 1951, 167: 333
 water intoxication, 1942, 135: 381
 work output in adrenalectomized rat, 1951, 166: 504
- CORWIN, W.: *see* HORVATH, S. M.
- CORWIN, W. C. Resistance to hypoglycemia after insulin treatment, 1939, 125: 227
 — *See* FLOCK, EUNICE V.
- CORYZA
 histamine-like secretions during, 1945, 144: 711
- COSBY, R. S.: *see* GREEN, H. D.
 — *See* WERLE, J. M.
- COTLOVE, E., HOLLIDAY, M. A., SCHWARTZ, R. and WALLACE, W. M. Muscle electrolytes, 1951, 167: 665
- COTTEN, M. DEV.: *see* WALTON, R. P.
- COTTONSEED OIL
 hydrogenated, absorption, 1942, 136: 712
 nutritive value, 1947, 148: 47
- COTTERMAN, C. W.: *see* BRIDGER, C. E.
- COTTINGHAM, ESTHER: *see* MILLS, C. A.
- COUCH, J. R., OLCESE, O., WITTEN, P. W. and COLBY, R. W. Vitamin B₁₂ content of blood, 1950, 163: 77
 — *See* BACIGALUPO, F. A.
 — *See* COLBY, R. W.
- COUGH
 circulatory pressure, 1944, 141: 43
- COULTER, N. A., JR. and PAPPENHEIMER, J. R. Turbulence in flowing blood, 1949, 159: 401
- COURNAND, A., MOTLEY, H. L., HIMMELSTEIN, A., DRESDALE, D. and BALDWIN, J. B. P. tracings from left auricle and pulmonary veins, 1947, 150: 267
 —, WERKO, L. and RICHARDS, D. W., JR. Pressure breathing and cardiac output, 1948, 152: 162
 — *See* HAMILTON, W. F.
- *See* MOTLEY, H. L.
 — *See* RICHARDS, D. W., JR.
 — *See* RILEY, R. L.
- COW: *see* CATTLE
- COWGILL, G. R.: *see* ASHWORTH, U. S.
 — *See* STREET, H. R.
- COWIE, D. B., FLEXNER, L. B. and WILDE, W. S. Capillary permeability, 1949, 158: 231
 — *See* FLEXNER, L. B.
 — *See* WILDE, W. S.
- COWPER'S GLAND
 adrenocortical hormones, 1939, 126: 371
- COX, J. W.: *see* RANDALL, W. C.
- COX, W. M.: *see* HERRMANN, H.
- COX, W. W.: *see* WILLIAMS, E. F., JR.
- COXE, J. W.: *see* SMITH, D. J.
- COY, F. E., JR.: *see* REHM, W. S.
- CRAFTS, R. C.: *see* LEVIN, L.
- CRAIG, F. N. Renal function in relation to lactic acid, 1946, 146: 146
 —, VISSCHER, F. E. and HOUCK, C. R. Renal function under ether or cyclopropane, 1945, 143: 108
 — *See* HOUCK, C. R.
- CRAMPTON SCORES
 acclimatization to heat, 1943, 140: 322
 high and dry heat, 1943, 139: 587
 insomnia, 1942, 138: 66
 sodium chloride, 1943, 140: 443
- CRAMPTON, C. B.: *see* SCHNEIDER, E. C.
- CRANDALL, L. A., JR. and CHERRY, I. S. Hepatic glucose output affected by insulin and glycine, 1939, 125: 658
 — LIPSCOMB, A. Hepatic glucose production in diabetes mellitus, 1947, 148: 312
 —, IVY, H. B. and EHNI, G. J. Hepatic acetone body production, 1940, 131: 10
 — *See* ACKERMAN, R. F.
 — *See* CHERRY, I. S.
 — *See* IVY, H. B.
 — *See* LIPSCOMB, A.
 — *See* MULDER, A. G.
 — *See* SMITH, P. W.
 — *See* WINTER, I. C.
- CRANFIELD, P. F., EYSTER, J. A. E. and GILSON W. E. Electrical characteristics of injury potentials, 1951, 167: 450
 —, EYSTER, J. A. E. and GILSON, W. E. NaCl and injury potentials of cardiac muscle, 1951, 166: 269
- CRAVEN, C. W. Oxygen consumption and partial inanition, 1951, 167: 617
- CRAYFISH, FRESH WATER: *see* CAMBARUS CLARKII
- CREATINE
 age and content in muscle, 1945, 145: 79
 amino acid clearance, 1944, 140: 690
 excretion, glycine, 1941, 132: 578
 hormones, 1941, 132: 189
 formation from guanidoacetic acid, 1949, 157: 404
 renal reabsorption of, 1943, 140: 162; 1944, 140: 543; 1949, 157: 14
- CREATINE PHOSPHATE: *see* PHOSPHOCREATINE

CREATINE-CREATININE

- excretion, gelatin, 1941, 133: 520
- glycine, 1939, 127: 717; 1941, 132: 578; 1941, 134: 471
- in schizophrenics, 1941, 133: 679
- indices, in diabetic subjects, 1949, 159: 461
- metabolism, liver, 1938, 124: 530
- of blood, callicrein, 1944, 142: 531

CREATININE

- acetylcholine sensitivity of muscle, 1946, 145: 420
- as a buffer in the urine, 1945, 144: 245
- clearance, 1939, 125: 640; 1940, 130: 278; 1946, 146: 352; 1947, 148: 389; 1948, 152: 30; 1951, 164: 146
- cinchona alkaloids, 1947, 148: 685
- exogenous, urine flow, 1946, 145: 639
- renal ischemia, 1945, 144: 401
- renal regulation of acid-base balance, 1946, 147: 141
- testosterone, 1942, 137: 338
- tetrathionate injections, 1946, 147: 120
- thyroxin, 1944, 140: 701
- under anesthesia, 1945, 143: 112
- endogenous, excretion by kidney, 1938, 123: 260
- endogenous and exogenous clearances in rat, 1947, 151: 211
- equilibrium between cells and plasma in vitro, 1940, 130: 456
- excretion after ingestion of caffeine, 1942, 138: 79
- during osmotic diuresis, 1949, 157: 364
- following dehydration, 1949, 156: 435
- glycine, 1941, 132: 578
- hormones, 1941, 132: 189
- in anthropoid apes, 1938, 122: 132
- in hemorrhagic shock, 1945, 145: 322
- in traumatic shock, 1945, 145: 323
- of blood following hepatectomy, 1938, 121: 210
- following hepatectomy and nephrectomy, 1938, 121: 211
- of blood and urine following hepatectomy, 1938, 121: 204
- of body fluids during dietary restrictions in man, 1946, 147: 47
- of plasma, and renal acid-base regulation, 1946, 147: 482
- of urine, glucose and fructose, 1938, 124: 79
- of urine, blood, and feces, on various diets, 1947, 148: 624
- whole-body x-irradiation, 1951, 164: 454

CREATINURIA

- from guanidoacetic acid ingestion, 1949, 157: 404

CRESCITELLI, F. Carbamate conduction block, 1948, 155: 82

- Effects of oxine, carbostyryl and quinoline, 1950, 163: 197
- Nerve sheath as barrier, 1951, 166: 229
- GEISSMAN, T. A. Antihistamines and nerve fibers, 1951, 164: 509
- GILMAN, A. Electrical rhythm of brain after DDT administration, 1946, 147: 127
- TAYLOR, C. L. Physical fitness and lactate response to exercise, 1944, 141: 630

CRESOLS

- ortho, adrenaline oxidation by tyrosinase, 1942, 136: 67
- para, meta and ortho, clotting time and, 1945, 144: 450

CRESS, C. H., CLARE, F. B. and GELLHORN, E. Anoxia and the leucocyte count, 1943, 140: 299

CRETZMEYER, C. H. *see* HINES, H. M.

- CRIDER, J. O. and THOMAS, J. E. Secretion of pancreas after cutting extrinsic nerves, 1944, 141: 730
- *See* THOMAS, J. E.

CRIGLER, ELEANOR F.: *see* HELLEBRANDT, FRANCES A.CRISMON, C. S.: *see* CRISMON, J. M.

- CRISMON, CATHERINE A., HANVEY, R. V. and LUCK, J. M. Epinephrine etc., and amino acids in blood, 1940, 130: 171

CRISMON, J. M. and ELLIOTT, H. W. Lanatoside C and cold resistance, 1947, 151: 221

- FIELD, J. Tissue O₂ consumption in vitro after adrenalectomy, 1940, 130: 231

—, BEREZ, R. R., MADDEN, J. D. and FUHRMAN, F. A. Flavonoids and terminal vascular bed, 1951, 164: 391

- , CRISMON, C. S., CALABRESI, M. and DARROW, D. C. K poisoning and electrolyte distribution in muscle, 1943, 139: 667

— *See* ELLIOTT, H. W.— *See* FUHRMAN, F. A.CRITCHFIELD, FRANCES H.: *see* SHAFFER, C. B.CROCKER, B. F.: *see* WASTENEYS, H.

CROCODILE

- blood sugar and body temperature and emotional excitation, 1939, 125: 731

CROP-SAC

- proliferation of epithelium, 1938, 123: 614

CROSMAN, A. M. and CHARIPFER, H. A. Poly-lobation of polymorphonuclear neutrophile, 1938, 124: 398

CROSS-CIRCULATION TECHNIQS

- demonstration of noradrenaline-like substance, 1949, 159: 440

CROSS, R. J. and TAGGERT, J. V. PAH accumulation by kidney slices, 1950, 161: 181

CROSSED PHRENIC PHENOMENON

- role of vagi, 1948, 154: 417

CROSSLAND, J.: *see* RICHTER, D.CROSSTRANSFUSION: *see* TRANSFUSION

CROTALIN

- blood histamine, 1941, 132: 552; 1942, 135: 374

CROWDER, C. H.: *see* MORALES, P. A.

CRUZ, W. O., HAHN, P. F. and BALE, W. F. Hemoglobin formation with iron of destroyed red cells, 1942, 135: 595

CRYOLITE

- toxicity, compared to sodium fluoride, 1939, 126: 713

CRYPTORCHIDISM

- exophthalmos, 1938, 121: 620

CRYSTALLOIDS

- absorption from obstructed gall bladder, 1940, 129: 704

- CSAPÓ, Á. Contractile proteins in human muscle, 1950, 160: 46
 — Uterine motility and estrogen, 1950, 162: 406
 — HERRMANN, H. Proteins in skeletal muscle, 1951, 165: 701
- CULBRETH, G. C.: *see* SACKS, J.
- CULLEN, M. L.: *see* SCHECTER, A. E.
- CULLEN, S. C. and COOK, EVELYN V. Normal human arterial oxygen tension, 1942, 137: 238
- CULLER, E. A.: *see* ADES, H. W.
- CULMER, C. U.: *see* GRAY, J. S.
- CUMMINS, G. M.: *see* GROSSMAN, M. I.
- CUNNINGHAM, J. E.: *see* HOFF, H. E.
- CUNNINGHAM, W.: *see* LEVINE, R.
- CURARE
 antagonist to acetylcholine in cardiac stimulation, 1945, 144: 195
 atropine and, antagonists of acetylcholine, 1943, 139: 520
 bleeding volume, 1946, 146: 367
 convulsions in magnesium deficient animal, 1938, 121: 421
 denervated muscles, 1949, 158: 142
 denervated nictitating membrane, 1949, 156: 281
 electrical excitability of muscle, 1940, 129: 31
 factors affecting muscular response to stimulation, 1947, 149: 11
 inhibition of intestinal motility, 1951, 165: 378
 lactic acid and potassium movement, 1940, 131: 504
 neuromuscular transmission, 1939, 126: 58; 1940, 130: 226; 1943, 140: 273
 post-tetanic potentiation, 1940, 130: 437
 release of cerebral phosphate, 1946, 145: 547
- CURL, H.: *see* ACKERMAN, R. F.
- CURTIS, H. J. Action potential of heart muscle, 1949, 159: 499
 — TRAVIS, D. M. Conduction in purkinje tissue of the ox heart, 1951, 165: 173
 — *See* NICKERSON, J. L.
- CUTANEOUS FEMORAL SENSORY FIBERS: *see* NERVE FIBERS
- CUTTING, R. A., LARSON, P. S. and LANDS, A. M. Diuresis and excretion of glucose, 1938, 124: 662
 — *See* LANDS, A. M.
- CUTULY, E. Spermatogenesis in the rat, 1942, 137: 521
 —, McCULLAGH, D. R. and CUTULY, ELIZABETH. Effects of androgenic sterols, 1938, 121: 786
- CUTULY, ELIZABETH: *see* CUTULY, E.
- CYANIDE
 blocking of epinephrine cardioacceleration, 1950, 163: 492
 buoyancy of body, 1942, 137: 141
 carotid body, 1938, 121: 5
 conversion to thiocyanate, 1950, 163: 404
 determination of circulation times, 1941, 132: 93
 enzymatic conversion to thiocyanate, 1948, 153: 348
 expiratory activity in respiration, 1942, 136: 490
 formation from thiocyanate, 1951, 167: 47
 glomerular function, 1938, 122: 676
 hemoglobin, 1941, 132: 311
 inhibition of cytochrome oxidase, 1941, 131: 586
 oxygen consumption of muscle, 1939, 126: 210
 PAH accumulation in kidney slices, 1950, 161: 189
 renal electrolyte metabolism, 1951, 167: 208
 renal electrolytes, water metabolism, 1951, 167: 207
 respiration at high altitude, 1949, 156: 55
 respiratory response of newborn, 1938, 121: 245
 response of abdominal chemoreceptor, 1946, 147: 654
 smooth muscle to, 1944, 142: 381
 to epinephrine and, 1943, 140: 370
 uterine respiration, 1940, 128: 658
- CYCLOHEXANE
 muscle sensitivity to acetylcholine and potassium, 1946, 145: 610
- CYCLOHEXANOL
 interfacial tension between water and, 1946, 145: 612
 muscle sensitivity to acetylcholine and potassium, 1946, 145: 610
- CYCLOPROPANE ANESTHESIA
 lymph production, 1948, 154: 475
 pressure pulse, 1939, 128: 240
 renal function under, 1945, 143: 108
- CYSTEINE
 alloxan inhibition of glycolysis, 1947, 150: 614
 blood coagulation, 1940, 128: 401; 1940, 130: 576
 clotting time, 1945, 144: 453
 primary potential, 1949, 159: 86
 prophylaxis in tetrathionate poisoning, 1946, 147: 122
 protection in x-irradiation, 1951, 166: 15
- CYSTINE
 selective retention of nitrogen from, 1939, 126: 219
 serum phosphatase and liver function, 1943, 139: 642
- CYTOCHROME OXIDASE
 high oxygen tension, cyanide, 1944, 142: 379
 inhibitors, synovial membrane potentials, 1949, 157: 71
 uterine tissue during pregnancy, 1940, 128: 656
 respiration of uterus, 1941, 131: 584
 response to thyroid under various dietary conditions, 1950, 161: 30
 thyroid, adrenalectomy, 1946, 145: 695
- CYTOCHROME SYSTEM
 energy levels, 1949, 157: 70
 high oxygen tension, cyanide, 1944, 142: 388
- CYTOLYSIS
 due to saponin, 1943, 138: 432
- CYTOSINE
 ultraviolet irradiation, 1951, 167: 368
- D-L SUBSTANCE: *see* DELEZENNE-LEDEBT SUBSTANCE
- 2,4-D: *see* 2,4-DICHLORPHENOXYACETATE
- D'AMATO, H.: *see* HEGNAUER, A. H.
- D'AMOUR, F. E. Qualitative study of normal gonadotropin, 1939, 127: 649
 — *See* BLOOD, F. R.
 — *See* COHN, ESSIE W.

- D'AMOUR, F. E. *See* SMITH, D. L.
 — *See* WETZIG, P.
- D'ANGELO, S. A. Blood sugar in prolonged exposure to low altitudes, 1946, 145: 365
 — Respiratory metabolism at simulated altitude, 1946, 146: 710
- DABOIA
 venom, coagulant action of, 1941, 134: 609
- DAE: *see* DIETHYLAMINOETHANOL
- DALE, ALICE B.: *see* RODES, N. D.
- DALEY, R., WADE, J. D., MARAIST, F. and BING, R. J. Pulmonary hypertension from lycopodium spores, 1951, 164: 380
- DALTON, J. W. and NUZUM, F. R. Sodium thiocyanate and pressor action of renin, 1944, 141: 415
- DALY, C.: *see* HIMWICH, H. E.
- DAMERON, J. T.: *see* BRIDGER, C. E.
 — *See* LITTLE, J. M.
- DAMGAARD, EVELYN: *see* UNGAR, G.
- DANFORD, H. G. and DANFORD, PATRICIA A. Leukocytes in sodium chloride deficient rats, 1951, 166: 524
 — HERRIN, R. C. Salt restriction, 1951, 165: 128
 —, DIETER, D. G., CHRISTOFFERSON, J. W. and HERRIN, R. C. Sodium chloride in hypertension, 1950, 163: 190
 — *See* DANFORD, PATRICIA A.
- DANFORD, PATRICIA A. and DANFORD, H. G. Sodium chloride and 17-ketosteroids, 1951, 164: 690
 — *See* DANFORD, H. G.
- DANIEL, ESTHER P. and HEWSTON, ELIZABETH M. Biological role of vanadium, 1942, 136: 772
- DANIELSON, W. H., STECHER, R. M., MUNTWYLER, E. and MYERS, V. C. Acid-base balance of serum in hyperthermia, 1938, 123: 550
- DANLEY, KATHERINE S.: *see* SHIPLEY, ELVA G.
- DANOWSKI, T. S., ELKINTON, J. R. and WINKLER, A. W. Movements of body water in response to blood loss, 1946, 147: 306
 —, HALD, PAULINE M. and PETERS, J. P. Blood in diabetic acidosis, 1947, 149: 667
 — *See* HALD, PAULINE M.
 — *See* PETERS, J. P.
 — *See* TULIN, M.
- DANZIG, L. S.: *see* MILLER, G. E.
- DARK ADAPTATION
 anoxia, 1939, 127: 37; 1944, 142: 339
 at the fovea, 1938, 121: 454
 color vision, 1946, 146: 689
 electric threshold of eye, 1947, 148: 378
 in normal individuals, 1945, 143: 541
 periodic fluctuations in threshold, 1945, 143: 8
 peripheral visual acuity during, 1946, 146: 624
 vitamin A, 1938, 123: 734; 1940, 130: 653
- DARLING, R. C. and ROUGHTON, F. J. W. Methemoglobin and equilibrium of O₂ and hemoglobin, 1942, 137: 56
 — *See* BELDING, H. S.
 — *See* EGAÑA, E.
 — *See* RICHARDS, D. W., JR.
 — *See* ROUGHTON, F. J. W.
- DARROW, C. W. and GELLHORN, E. Adrenaline and autonomic nervous system, 1939, 127: 243
- PATHMAN, J. H. Heart rate and electroencephalogram in overventilation, 1944, 140: 583
- DARROW, D. C. Tissue electrolyte at low atmospheric pressures, 1944, 142: 61
- ENGEL, F. L. Liver water and electrolytes in hemorrhage shock, 1945, 145: 32
 — *See* CRISMON, J. M.
 — *See* DURLACHER, S. H.
 — *See* HARRISON, H. E.
 — *See* MILLER, H. C.
- DAUGHADAY, W.: *see* ROSENBLUETH, A.
- DAUS, MARGARET A.: *see* HITCHINGS, G. H.
- DAVENPORT, H. W. Carbonic anhydrase and gastric acid secretion, 1940, 129: 505
 — Gastric carbonic anhydrase in dogs, 1940, 128: 725
 — CHAVRÉ, VIRGINIA J. Acid secretion by stomach, 1951, 166: 456
 — FISHER, R. B. Gastric acid secretion, 1940, 131: 165
 —, BREWER, G., CHAMBERS, A. H. and GOLDSCHMIDT, S. Respiratory responses to anoxemia, 1947, 148: 406
 — *See* CHAMBERS, A. H.
 — *See* HENDLEY, C. D.
- DAVENPORT, VIRGINIA D. Distribution of lithium, 1950, 163: 633
 — Electrolytes and electro-shock thresholds, 1949, 156: 322
 — *See* WOODBURY, D. M.
- DAVEY, HARRIET W.: *see* ELMAN, R.
 — *See* LISCHER, C. E.
- DAVID, ANN: *see* GREENE, J. A.
- DAVIDS, A. M. and BENDER, M. B. Acetylcholine relaxation of oviduct, 1940, 131: 240
 — BENDER, M. B. Adrenaline, sex hormones and tubal contractions, 1940, 129: 259
- DAVIDSON, B.: *see* CASPE, S.
- DAVIES, R. E., HARPER, A. A. and MACKAY, I. F. S. Respiration and appearance of pancreas, 1949, 157: 278
- DAVIS, A. K., BASS, ANNE C. and OVERMAN, R. R. Ionic balance of cortisone and DCA, 1951, 166: 493
 — *See* FLANAGAN, J. B.
 — *See* OVERMAN, R. R.
- DAVIS, C. D. Ablation of neocortex and mating behavior, 1939, 127: 374
- DAVIS, D. E.: *see* TABER, ELSIE
- DAVIS, J. E. Acetylcholine in body fluids, 1950, 162: 616
 — Ascorbic acid and experimental polycythemia, 1940, 129: 140
 — Control of experimental polycythemia, 1939, 127: 322
 — Depression of red cell count by choline and lecithin, 1944, 142: 65
 — Experimental polycythemia, 1941, 134: 219; 1942, 137: 699
 — Hemolytic depression of erythrocyte number, 1944, 142: 213
 — Hyperchromic anemia, 1944, 142: 402; 1946, 147: 404

- Response of experimental polycythemia to liver, 1938, 122: 397
- Role of calcium and indigo in cellular respiration, 1938, 122: 402
- GROSS, J. B. Hemolytic anemia from feeding fat and choline, 1945, 144: 444
- HARRIS, A. M. Amphetamine sulfate and polycythemia in man, 1942, 137: 94
- DAVIS, W. A.: *see* SELIGMAN, A. M.
- DAVSON, H. and WELD, C. B. Studies on the aqueous humour, 1941, 134: 1
- *See* WELD, C. B.
- DAWSON, H.: *see* JANES, R. G.
- DAWSON, P. M. and HELLEBRANDT, FRANCES A. Aging in man and his capacity for physical work, 1945, 143: 420
- DAWSON, R. M. C. and RICHTER, D. Brain phosphate esters, 1950, 160: 203
- *See* RICHTER, D.
- DAY, R.: *see* FORSTER, R. E., II
- DCA: *see* DESOXYCORTICOSTERONE
- DDT
 - brain waves, 1946, 147: 127
- DE BEER, E. J. Viper venom and heparin action, 1947, 151: 58
- HJORT, A. M. Physiological measurements of purebred dogs, 1938, 124: 517
- DE BIAS, D. A. Testosterone and erythropoiesis, 1951, 165: 476
- DE BODO, R. C., BLOCH, H. I. and GROSS, I. H. Anterior pituitary and adrenaline hyperglycemia, 1942, 137: 124
- , BLOCH, H. I. and SLATER, I. Anterior pituitary and normal blood sugar levels, 1942, 137: 671
- , KURTZ, M., ANCOVITZ, A. and KIANG, S. P. Anti-insulin action of growth hormone, 1950, 163: 310
- *See* BODO, R. C.
- DE BOER, B. Dehydration and blood changes, 1945, 145: 154
- Dehydration and water distribution, 1946, 147: 49
- Water-salt exchange in dehydration, 1946, 147: 399
- *See* EDERSTROM, H. E.
- DE GRAFFENRIED, T. P., II.: *see* REHM, W. S.
- DE LALLA, V., JR. Skin cooling in pressure breathing, 1948, 152: 122
- DE PASQUALINI, C. D. Ascorbic acid and hemorrhagic shock, 1946, 147: 598
- Hemorrhagic shock in guinea pig, 1946, 147: 591
- DE REZENDE, N.: *see* ESSEX, H. E.
- DE SÜTÖ-NAGY, G. J. Action of an anticoagulant derived from tissues, 1944, 141: 338
- *See* MYLON, E.
- DEAFFERENTATION
 - circulation in traumatic shock, 1947, 148: 549
 - motor cortex stimulation, 1949, 156: 311
- DEAMINATION
 - by liver in hemorrhagic shock, 1945, 144: 677
 - of epinephrine related compounds by liver in vitro, 1945, 144: 326
- DEAN, R. B. and VISSCHER, M. B. Kinetics of lung ventilation, 1941, 134: 450
- *See* VISSCHER, M. B.
- DEATH
 - intramuscular pressure, 1943, 139: 161
 - plasma potassium of cardiac blood, 1939, 126: 339
 - somatic, survival of excitability after, 1947, 148: 300
 - survival time of muscle and nerve after, 1949, 156: 328
- DECAPITATED HEAD
 - survival time, 1944, 142: 154
- DECAPRYN
 - nerve fiber, 1951, 164: 512
- DECEREBRATE ANIMALS
 - cerebral ischemia, 1946, 146: 468
 - plantar reflexes, 1938, 124: 121
 - rigidity, muscle pain, 1945, 144: 259
- DECEREBRATE RIGIDITY: *see* DECEREBRATE ANIMALS, rigidity
- DECHERD, G. M.: *see* RUSKIN, A.
- DECIDUMATA
 - diet and formation, 1944, 141: 365
- DECKER, D. G. and ROSENBAUM, J. D. lactic acid in human blood, 1942, 138: 7
- DECOMPRESSION
 - acute, blood changes after, 1951, 164: 752
 - after high oxygen, 1945, 143: 658
 - alveolar gas tension, 1950, 161: 417
 - anticonvulsants and resistance to, 1944, 141: 7
 - blood pH during, 1944, 142: 483
 - explosive anoxia in, 1950, 160: 361
 - at high altitude, 1950, 162: 37
 - cardiovascular response to, 1946, 147: 289
 - injury and, 1947, 150: 608; 1949, 157: 88; 1950, 162: 452
 - survival of, 1950, 163: 400
 - injury, alveolar CO₂ tension and, 1946, 147: 603
 - on re-ascent to high altitudes, 1947, 150: 135
 - skin in, 1947, 149: 626
 - intravascular bubble formation over various ranges, 1946, 147: 19
 - metabolism during and after exercise, 1945, 144: 637
 - rate of, mortality, 1947, 150: 608
- DEEP SEA DIVING
 - use of inert gases in, 1939, 126: 409
- DEER
 - asiatic sika, Dybowski's and white-tailed, blood sugar level of, 1950, 162: 438
 - prothrombin concentration in blood, 1941, 132: 242
- DEERING, R.: *see* RANDALL, W. C.
- DEFECATION
 - various doses of pitressin, 1938, 123: 402
 - volume of gas in digestive tract, 1947, 149: 699
- DEFRIEZ, A. I. C.: *see* ABRAMS, M.
- *See* TOSTESON, D. C.
- DEGENERATION: *see* NERVE
- DEGLUTITION
 - reflex, in stimulus pattern, 1951, 166: 142
- DEGROAT, A. F.: *see* McDONALD, C. H.
- DEHYDRATION
 - blood changes during, 1945, 145: 155
 - continuous administration of water, 1945, 143: 568

DEHYDRATION

- excretion of antidiuretic substance, 1939, 127: 549
 fluid distribution, 1948, 152: 66
 glucose metabolism, 1947, 148: 600
 histochemical changes in kidney during, 1944, 142: 446
 insulin sensitivity in chickens, 1943, 139: 564
 kidney function, 1949, 159: 177
 muscle, changes during, 1944, 142: 447
 potassium secretion, 1950, 161: 159
 survival in anoxia, 1944, 142: 312
 in hemorrhagic shock and, 1945, 144: 213; 1945, 144: 219
 tolerance to, and heat, 1947, 151: 564
 tourniquet shock, 1945, 143: 99
 water and fat distribution in skin and muscle, 1946, 147: 49
 water-salt exchange in, 1946, 147: 399

11-DEHYDRO-17-HYDROXYCORTICOSTERONE: *see* CORTISONE

DEHYDROACETATE

- renal electrolyte metabolism, 1951, 167: 208
 succinic oxidase-succinoxidase inhibition and suppression of renal tubular mechanisms, 1951, 166: 110

DEHYDROANDROSTERONE: *see* ANDROSTERONES, dehydro-

DEHYDROASCORBIC ACID

- central nervous system, 1951, 167: 119
 production of hyperglycemia, 1951, 165: 61

11-DEHYDROCORTICOSTERONE

- assay of, 1940, 130: 299

DEHYDROERGOTAMINE

- denervated nictitating membrane, 1949, 156: 282

DEHYDROGENASE

- high oxygen tension, cyanide, 1944, 142: 379
 inactivation in oxygen poisoning, 1940, 131: 388
 of brain, inhibition by anticholinesterases, 1949, 157: 463

DEHYDROGLUCOASCORBIC ACID

- production of hyperglycemia, 1951, 165: 61

DEHYDROISOANDROSTERONE: *see* ANDROSTERONES

DEHYDROISOASCORBIC ACID

- production of hyperglycemia, 1951, 165: 61

DEL POZO, E. C. Transmission fatigue and contraction fatigue, 1942, 135: 763

- LEÃO, A. A. P. Hyperventilation and cortical responses, 1943, 139: 335

— *See* ROSENBLUETH, A.

DELEZENNE-LEDEBT SUBSTANCE

- prepared from snake venom and egg yolk, 161: 561

DELFS, ELEANOR: *see* LAMAR, J. K.DELSERONE, B.: *see* WIRTS, C. W.DELTA INDEX: *see* ELECTROENCEPHALOGRAMDELURY, D. B.: *see* SOLANDT, D. Y.DEMARIA, W. J. A.: *see* HANDLER, P.

— *See* HARRIS, J. S.

DEMING, J.: *see* CHAMBLISS, J. R.DEMOOR, P.: *see* MILMAN, ANNE E.

DEMPSEY, E. W. Central nervous system and reproductive cycle, 1939, 126: 758

- MORISON, R. S. Activity of a thalamocortical relay system, 1943, 138: 283

- MORISON, R. S. Cortical potentials after thalamic stimulation, 1942, 135: 293

- MORISON, R. S. Interaction of cortical potentials, 1942, 135: 301

- MORISON, R. S. and MORISON, B. R. Afferent paths to the cortex, 1941, 131: 718

— *See* CHATFIELD, P. O.

— *See* LISSÁK, K.

— *See* MORISON, R. S.

— *See* ROSENBLUETH, A.

- DEMPSTER, W. T. and FINERTY, J. C. Activity of wrist muscles, 1947, 150: 596

DEMUNBRUN, D. O.: *see* STACY, R. W.

DENERVATION

- adrenaline effect on melanophores after, 1941, 132: 245

- intestinal motility and, response to adrenaline and sympathin, 1938, 123: 424

- of afferent fibers, intestinal distention, 1945, 144: 722

- of bone marrow, erythropoiesis, 1944, 142: 176

- partial, sensitization of adrenal glands by, 1938, 122: 186

- of motor neuron by, 1939, 126: 731

- preganglionic, of sympathetic ganglion, 1939, 125: 276

- responsiveness of nictitating membrane, 1938, 122: 650

- of sweat glands after, 1951, 165: 356

- sensitivity of intestinal muscle to sympathomimetic amines, 1939, 126: 243

- sensitization effect on sympathetic ganglion, 1938, 122: 94

- sudden vasoconstriction and, 1948, 155: 165

- sympathetic, sensitization of submaxillary gland by, 1939, 125: 674

- uptake of phosphorus by skeletal, 1950, 163: 579

- vascular response to drugs, 1943, 139: 424

DENISON, A. B.: *see* LIPTON, E. L.DENKO, C. W.: *see* BERRYMAN, G. H.

— *See* COGSWELL, R. C., Jr.

- DENNIS, C. Injury to ileal mucosa by distilled water, 1940, 129: 171

- VISSCHER, M. B. Intestinal absorption and osmotic work, 1940, 129: 176

- VISSCHER, M. B. Rates of absorption of water and salts from ileum, 1940, 131: 402

- WOOD, E. H. Intestinal absorption in adrenalectomized dog, 1940, 129: 182

— *See* KABAT, H.

- DENNIS, J. and MOORE, R. M. Potassium changes in ischemic and congested heart, 1938, 123: 443

— *See* MOORE, R. M.

— *See* MULLIN, F. J.

- DENSLOW, J. S. and HASSETT, C. C. Polyphasic action potentials, 1943, 139: 652

- , KORR, I. M. and KREMS, A. D. Studies of facilitation in man, 1947, 150: 229

DENT, FRANCES MAE: *see* BOOKER, W. M.

- DENTON, R. W. and IVX, A. C. Liver regeneration, 1948, 152: 460

DEOXYCHOLATE

- chloride, and water absorption, 1942, 136: 343

DEPOLARIZATION

- of cerebral cortex, 1947, 150: 546
- of spinal cord during asphyxia, 1946, 147: 669

DEPRESSOR REFLEX

- fatigue of, 1944, 142: 350

DEPRESSOR SUBSTANCES: *see* VASODEPRESSOR ACTIVITY

- DERN, R. J., LEVENE, J. M. and BLAIR, H. A. Forces exerted in arm movements, 1947, 151: 415

— *See* BLAIR, H. A.

DEROW, M. A.: *see* TUM SUDEN, CAROLINE

11-DESOXY-17-HYDROXYCORTICOSTERONE

- work performance, 1941, 133: 677

DESOXYCORTICOSTERONE

- action in shock, 1942, 137: 81
- action potential in rats on low-potassium diet, 1947, 150: 454
- antagonism, post-pituitary extract, 1941, 133: 511
- to ACTH, 1950, 160: 217
- antiuremic effect of, 1941, 134: 71
- as prophylactic in shock, 1941, 134: 426
- assay of, 1940, 130: 299
- blood glutathione, 1951, 165: 570; 1951, 165: 578
- blood pressure, 1951, 164: 71
- on high sodium, 1948, 154: 120
- blood pressure response to carbon arc irradiation, 1943, 139: 607
- blood and tissue chloride, 1941, 132: 522
- burn shock, 1945, 145: 204; 1950, 160: 83
- capillary permeability, 1941, 134: 258
- cations in muscle, 1941, 134: 227
- circulation of adrenalectomized animals, 1941, 134: 503
- circulatory failure, 1942, 136: 571
- compared to whole adrenal cortex extract, 1941, 133: 503
- cortisone, 1950, 163: 319
- experimental seizure pattern, 1949, 157: 236
- experimental shock, 1943, 139: 481
- fibrillation and atrophy of denervated muscle, 1942, 135: 750
- glycogenesis due to, 1949, 159: 263
- in liver, 1941, 131: 783
- hypertension, 1948, 153: 226
- adrenals, 1949, 157: 241
- hypertensive rats after hypophysectomy, 1946, 147: 471
- inactivation of histamine by adrenalectomized animal, 1939, 127: 782
- ionic balance with, 1951, 166: 493
- joint swelling, 1951, 166: 344
- ketosis, 1942, 135: 462
- leukocyte response to, 1951, 166: 524
- maternal behavior, 1942, 137: 299
- mechanisms of action, fluid intake and pressor response, 1948, 155: 290
- metabolism, 1941, 132: 670
- muscle and liver glycogen, 1949, 159: 256
- muscular response to electrical stimulation, 1947, 149: 7
- neuromuscular transmission, 1942, 137: 331
- normal animals, 1941, 135: 102; 1941, 135: 230
- oxygen consumption of erythrocytes, 1947, 149: 505
- polyuria caused by, 1943, 139: 710

- potassium and, intoxication tolerance, 1947, 151: 143

metabolism under stress, 1948, 152: 429

renal size, 1942, 136: 347

secretion, 1950, 161: 155

- production of polydipsia and polyuria with, 1940, 131: 73

- protection against high temperatures, 1945, 144: 109

radiation syndrome, 1951, 165: 39

resistance to cold, 1942, 136: 25

to G forces, 1946, 146: 41

serum protein level, 1942, 136: 308; 1942, 136: 779

sodium transport, 1951, 167: 333

sodium and potassium of blood and urine, 1951, 167: 330

sodium chloride intake, fluid exchange and pressor effects, 1948, 154: 465

sodium chloride and bicarbonate intake, 1951, 164: 369

survival after adrenalectomy, 1940, 131: 441

after x-irradiation, 1951, 167: 345

to explosive decompression, 1950, 163: 401

tissue ionic concentrations, water content, 1950, 160: 100

traumatic shock, 1942, 138: 3

water intoxication, 1942, 135: 380

water and electrolyte concentration of cortex, 1949, 157: 236

work performance of adrenalectomized rats, 1941, 133: 677

DETHIER, V. G. Taste sensitivity to homologous compounds, 1951, 165: 247

DETOXIFICATION

- of placental toxin during pregnancy, 1946, 147: 255

DEUEL, H. J., JR.: *see* BAVETTA, L. A.

— *See* BOBBITT, BLANCHE G.

— *See* ERSHOFF, B. H.

— *See* MILLER, ZELMA B.

DEUTERIUM

permeability of bladder to water, 1951, 165: 87

DEUTSCH, H. F., McSHAN, W. H., ELY, C. A. and MEYER, R. K. Substances of rabbit serum, 1950, 162: 393

— *See* MARSHALL, MARGARET E.

DEVELOPMENT

after thymectomy, 1940, 130: 672

embryonic, contractile proteins of muscle, 1951, 165: 701

gonadotropins of hypophysis, 1939, 125: 396

heat loss, 1939, 125: 38

of gastro-intestinal motility, 1941, 132: 297

phosphorus esters in muscle, 1951, 165: 713

DEWALD, D.: *see* GREGG, D. E.

DEXEDRINE

cardiovascular system, 1945, 144: 166

DENTER, L.: *see* HAYNES, FLORENCE W.

— *See* HELLEMS, H. K.

DEXTROSE: *see* GLUCOSE

DEY, F. L., FISHER, C., BERRY, C. M. and RANSON, S. W. Hypothalamic lesions and reproductive disturbances, 1940, 129: 39

- DEV, F. L., FISHER, C., BERRY, C. M. and RANSON, S. W. *See* BROOKHART, J. M.
- *See* GROAT, R. A.
- *See* WANG, S. C.
- DEYRUP, INGRITH J. Circulatory changes following histamine subcutaneously, 1944, 142: 158
- Hypertonic solutions and mammalian blood, 1951, 167: 749
- ROOT, W. S. Subcutaneous histamine and cardiac output, 1947, 148: 134
- WALCOTT, W. W. Cardiac slowing and hypertonic solutions, 1948, 154: 336
- WALCOTT, W. W. Circulatory effects of hypertonic solutions, 1950, 160: 509
- WALCOTT, W. W. Hypotension of hypertonic NaCl-blood mixtures, 1950, 160: 519
- *See* WALCOTT, W. W.
- DEYSACH, L. J. "Sphincter mechanism" in the liver, 1941, 132: 713
- DFP: *see* DIISOPROPYL FLUOROPHOSPHATE
- DHA: *see* DEHYDROACETATE
- DHO: *see* DIHYDROERGOCORINE
- DI-OVOCYLIN: *see* ESTRADIOL, dipropionate
- DIABETES
- blood lactic and pyruvic in, 1949, 156: 92
- correlation with cataract, 1951, 165: 61
- creatinine-creatinine indices, 1949, 159: 461
- DNP, 1951, 167: 224
- due to pancreatectomy, *see* PANCREATECTOMY
- enhanced with inflammation, 1941, 134: 517
- experimental, water and electrolyte distribution, 1941, 132: 418
- experimental production with diethylstilbestrol, 1943, 138: 577
- following injection of anterior pituitary extract, 1939, 125: 188
- hereditary, adrenal medullectomy, 1944, 141: 466
- hormones, urinary glucose, nitrogen in, 1947, 150: 400
- hyperglycemic principle in urine, 1939, 125: 566
- in depancreatized dogs, lipocaic, 1941, 135: 134
- inflammation constituents, 1941, 134: 526
- intestinal absorption of glucose, 1942, 137: 242
- metabolic, pituitary hormones in, 1948, 155: 18
- necrosis, 1946, 147: 383
- persistent, after injection of anterior pituitary extracts, 1939, 125: 188
- produced by dehydroascorbic acid, 1951, 165: 61
- sugar and urine concentration in exudate, 1943, 138: 397
- with hepatectomy, glucose utilization, 1940, 130: 249
- DIABETES, ALLOXAN
- adrenalectomy, 1946, 145: 538
- amino acid excretion, 1951, 167: 182
- Eck fistula formation, 1951, 167: 193
- fasting, 1948, 154: 94
- glycogen of liver, 1950, 161: 545
- hemorrhage and carbohydrate metabolism, 1948, 154: 107
- high fat diet, 1947, 151: 581
- in parabiotic rats, 1947, 148: 186
- incidence, control and regression, 1949, 156: 100
- phosphate and glucose utilization, 1950, 162: 416
- pituitary and ovarian dysfunction, 1947, 150: 84
- production of hyperglycemic substance by pancreas, 1949, 157: 197
- sex, 1951, 166: 364
- thiamin deficiency, 1948, 153: 417
- urinary glucose, and N, 1947, 150: 400
- DIABETES INSIPIDUS
- adrenal cortex and anterior pituitary in, 1941, 132: 141
- DCA, cortin, 1943, 139: 710
- diuretic action of thyroid, 1944, 141: 189
- excretion of antidiuretic substance, 1941, 134: 240
- experimental, diet and polyuria, 1943, 139: 701
- fluid exchange, 1938, 121: 112
- kidney function, 1938, 123: 566; 1943, 140: 339; 1950, 160: 321
- nerve reception and water drinking, 1939, 126: 13
- produced by desoxycorticosterone, 1940, 131: 73; 1941, 135: 102; 1941, 135: 230
- production of, in dog, 1941, 133: 582
- salt intake and polyuria, 1940, 131: 363
- sodium chloride intake, 1939, 126: 344
- urea clearance, 1938, 122: 288
- voluntary ingestion of water, 1938, 122: 668
- water exchange, adrenalectomy, 1938, 122: 143
- DIABETES, PHLORHIZIN
- anterior pituitary factor, 1939, 128: 111
- mechanism, 1941, 134: 94
- DIAL: *see* DIALYLBARBITURIC ACID
- DIALYLBARBITURIC ACID
- anesthesia, and potassium metabolism, 1950, 163: 626
- asphyxial depolarization potential, 1950, 160: 453
- DIALYLMALONYLUREA
- acetylcholine metabolism, 1947, 151: 346
- DIALYSIS
- by use of artificial kidney, 1949, 156: 443
- DIAMINE OXIDASE: *see* HISTAMINASE
- 2,4-DIAMINOPHENOL
- phenol red transport in fish tubules, 1950, 161: 169
- respiration of fish kidney, 1950, 161: 171
- DIAPHRAGM
- arsenite and respiration, 1945, 143: 640
- exchange of radioactive and tissue potassium, 1941, 135: 152
- inspiratory potentials, 1940, 128: 617
- metabolism in diabetic animal, 1949, 158: 261
- in lymph from burned areas, 1944, 142: 288
- of methanol, 1950, 163: 617
- potassium deficiency, 1951, 167: 319
- thiouracil, 1944, 141: 93
- motor integration, 1943, 139: 745
- NaCl and oxygen consumption, 1943, 139: 84
- oxygen consumption, 1939, 125: 756; 1944, 142: 398
- radioactive iodine, 1941, 132: 348
- DIASTASE
- hexyl resorcinol and ammonium thiocyanate, 1942, 135: 335
- DIATHERMY
- O₂ and CO₂ of cerebral blood during, 1942, 136: 178
- use for heating dogs, 1938, 122: 511

- DIAZ, J. T. and LEVY, S. E. Experimental hypertension in the rat, 1939, 125: 586
- , PHELPS, DORIS, ELLISON, E. T. and BURCH, J. C. Gonadotropic response after estrin treatment, 1938, 121: 794
- See UNDERWOOD, N.
- DIAZ-GUERRERO, R., THOMSON, J. D. and HINES, H. M. Neuromuscular atrophy and regeneration, 1947, 151: 91
- DIBENAMINE: *see* DIBENZYL- β -CHLOROETHYLAMINE
- DIBENZYL- β -CHLOROETHYLAMINE
- adrenal cortex, 1950, 160: 494
- blocking of epinephrine cardioacceleration, 1950, 163: 485
- blood sugar level in radiation syndrome, 1951, 165: 38
- convulsant activity, 1950, 160: 198
- epinephrine response, 1950, 161: 495
- hemorrhage, 1950, 161: 116
- inhibition of pseudopregnancy, 1950, 161: 524
- partial mitigation of radiation syndrome, 1951, 165: 27
- potassium concentration, 1951, 167: 515
- potassium distribution, 1950, 163: 154
- traumatic shock, 1950, 161: 125
- 2,6-DICHLORO-4-NITROPHENOL
- phenol red transport in fish tubules, 1950, 161: 169
- renal electrolyte metabolism, 1951, 167: 208
- respiration of fish kidney, 1950, 161: 171
- 2,4-DICHLOROPHENOL
- phenol red transport in fish tubules, 1950, 161: 169
- respiration of fish kidney, 1950, 161: 171
- 2,4-DICHLOROPHENOXYACETATE
- veratrinic, 1948, 155: 69
- DICK, M. Respiration and circulation after intravenous oxygen, 1939, 127: 228
- HEGE, J. R., JR. Thiamin and intestine of B_1 deficient rat, 1941, 132: 636
- DICKES, R.: *see* BOBEY, M. E.
- DICUMAROL
- calcium requirement for blood clotting, 1947, 148: 216
- plasma fibrinogen, 1945, 143: 102
- plasma prothrombin clotting time, 1946, 145: 453
- platelets, 1944, 142: 282
- prophylactic agent for thrombosis, 1944, 142: 281
- prothrombin, 1943, 140: 212
- prothrombin defect due to, 1947, 151: 66
- prothrombin produced by treated animals, 1948, 155: 394
- prothrombin time, 1945, 143: 358
- transmission through milk, 1945, 143: 240
- DIENCEPHALIC LESIONS
- reproductive cycle, 1939, 126: 760
- DIENESTROL
- estrogenic potency in chick, 1946, 147: 586
- DIET
- activity of rat, 1944, 142: 663
- bile output, 1938, 122: 331
- blood sugar changes due to alloxan, 1950, 160: 228
- bradycardia in rat, 1940, 128: 608
- calorigenic effect, 1942, 135: 743
- cataract development in diabetic rat, 1950, 161: 540
- cholate synthesis, 1950, 163: 48
- composition, thiamin requirement, 1939, 126: 289
- deciduoma formation, 1944, 141: 365
- dietary restrictions in man, efficiency, 1946, 147: 39
- electrolyte changes in stimulated muscle, 1940, 128: 445
- epinephrine formation, 1951, 164: 476
- excretion of vitamins, 1950, 162: 131
- fat content and physical fitness, 1947, 149: 201
- gonadotropic content of pituitary, 1940, 128: 497
- hair growth, 1940, 129: 554
- hemoglobin, 1938, 124: 511
- hyperlipemia, 1938, 123: 558
- hypothalamic obesity, 1946, 147: 697
- hypothalamic rat, O_2 consumption, 1946, 147: 721
- intake, of men in army training camps, 1945, 144: 588
- intralumen pressures of digestive tract, 1940, 130: 799
- liver and acetaldehyde metabolism, 1949, 157: 184
- liver regeneration, 1949, 157: 221
- magnesium deficiency, 1947, 149: 135
- muscular atrophy, 1949, 159: 8
- muscular efficiency relative to taking of, 1938, 121: 123
- outcome of thyroparathyroidectomy, 1938, 122: 409
- pancreatic enzymes, 1943, 138: 676
- parathyroid tetany, 1938, 122: 722
- phosphatase secretion in intestine, 1943, 138: 237
- polyuria caused by desoxycorticosterone, 1943, 139: 710
- previous, dietary experiments, 1939, 125: 335
- urine and blood ketones, 1939, 126: 755
- protein anabolism in heart, kidney and liver, 1940, 129: 685
- purified, promotion of growth and hemoglobin levels by, 1945, 145: 23
- resistance of liver slices to anoxia, 1946, 147: 181
- secretion of ammonia in intestine, 1940, 129: 147
- semen phosphatase, 1948, 153: 238
- tissue composition, 1944, 141: 146
- vasodilatation of extremities, 1948, 152: 183
- water content of organs, 1940, 128: 539
- of skin, 1942, 135: 393
- DIET, LOW CALORIC: *see* CALORIES, restriction
- DIETER, D. G.: *see* DANFORD, H. G.
- DIETHYL 2,2-DICHLORO ISO-PROPYLAMINE
- convulsant activity, 1950, 160: 197
- DIETHYL 2,2-DICHLORO ISOBUTYLAMINE
- convulsant activity, 1950, 160: 197
- DIETHYL(β -DICHLOROISOBUTYL)AMINE
- inhibition of brain cholinesterase, 1950, 160: 192
- DIETHYL(β -DICHLOROISOPROPYL)AMINE
- inhibition of brain cholinesterase, 1950, 160: 192
- DIETHYLAMINOETHANOL
- abnormal electrocardiogram produced by potassium deficiency, 1950, 162: 542
- β -DIETHYLAMINOETHYL XANTHENE-9-CARBOXYLATE
- METHOBROMIDE: *see* BANTHINE
- N-DIETHYLAMINOETHYL-N-ETHYLANILINE: *see* 1571 F
- DIETHYLDITHIO CARBAMATE: *see* CARBAMATES, dithio-
- DIETHYLSTILBESTEROL
- biotin deficiency, 1950, 161: 9
- blood pressure, 1943, 139: 17

DIETHYLSTILBESTEROL

carbohydrate metabolism, 1942, 136: 137, 1942, 137: 557

diabetogenic effect of, 1943, 138: 577

erythrocyte count, 1943, 138: 483

growth, food intake, 1949, 159: 284

thyroid iodine content, 1945, 144: 367

induced lipemia in chicken, 1951, 165: 600

potency in chick, 1946, 147: 584

thyroidectomy, 1946, 145: 412

s-DIETHYLTHIOUREA: *see* THIOUREA, s-diethyl-

DIFFERENTIAL LIGHT THRESHOLD: *see* LIGHT THRESHOLD

DIFRACTOGRAM

of bone during antirachitic healing, 1942, 138: 36

DIFFUSION

capillary permeability, 1951, 167: 13

clearance of various substances in the kidney, 1946, 145: 643

from cell to plasma in vivo and in vitro, 1945, 145: 320 of Ca, Mg and P in the peritoneum, 1939, 126: 66

DIFFUSION RESPIRATION: *see* RESPIRATION, by diffusion

DIGESTION

efficiency in hypothalamic obesity, 1946, 147: 725

of protein in vivo, 1941, 135: 6

particle size, 1941, 132: 47

peripheral vascular responses, 1941, 133: 687

DIGESTIVE TRACT: *see* ALIMENTARY TRACT

DIGITAL ARTERIES

reaction of, to cold, 1942, 136: 680

DIGITALIS

blood electrolytes, 1942, 137: 9

edema of heart-lung preparation, 1942, 136: 519

survival in cold, 1947, 151: 366

DIGITALOIDS

contractile force of heart muscle, 1950, 161: 503

DIGITOXIN

acetylcholine metabolism, 1947, 151: 346

papillary electrograms, 1949, 156: 32

DIGOXIN

vitamin E deficient animals, 1944, 141: 244

DIHYDROERGOCORININE

blocking of epinephrine cardioacceleration, 1950, 163: 485

carotid occlusion and arterial pressure, 1950, 162: 556

inhibition of hyperglycemia, 1951, 165: 68

DIHYDROERGOTAMINE

blocking of epinephrine cardioacceleration, 1950, 163: 485

DIHYDROTACHYSTEROL: *see* VITAMINS D

DIHYDROXANTHOPTERIN: *see* XANTHOPTERIN, dihydro-

1(3-4-DIHYDROXYPHENYL)-2, AMINOPROPANONE

response to epinephrine, 1943, 140: 372

DIHYDROXYPHENYLALANINE: *see* DOPA

3,5-DIODO-4-PYRIDONE-N-ACETIC ACID: *see* DIODRAST

3,5-DIODOTHYRONINE

ascorbic acid oxidation, 1951, 167: 349

DIODOTYROSINE

cardiac and metabolic effects of, 1944, 141: 34

DIISOPROPYL FLUOROPHOSPHATE

acetylcholine stimulation, 1947, 151: 107

age and lethality, 1948, 153: 121

brain dehydrogenases, 1949, 157: 466

experimental production of convulsions with, 1949, 156: 117

inhibition of brain oxidation by, 1949, 157: 301

muscle, 1948, 153: 358

renal electrolyte metabolism, 1951, 167: 209

respiration and electrical activity of frog brain, 1949, 157: 299

site of injection and variation in response, 1949, 156: 125

summation of stimuli following use of, 1950, 160: 375

toxicity and cholinesterase level, 1949, 157: 80

DILANTIN: *see* DIPHENYLHYDANTOIN

DILL, D. B. and FORBES, W. H. Respiratory and metabolic effects of hypothermia, 1941, 132: 685

— **HORVATH, S. M.** Gelatin ingestion and creatinine-creatinine excretion, 1941, 133: 520

— **ZAMCHECK, N.** Respiratory adjustment of O₂ lack in presence of CO₂, 1940, 129: 47

— **HALL, F. G. and EDWARDS, H. T.** Composition of sweat during acclimatization to heat, 1938, 123: 412

— *See* ADOLPH, E. F.

— *See* ASMUSSEN, E.

— *See* CHIODI, H. P.

— *See* FORGES, W. H.

— *See* HORVATH, S. M.

— *See* KNEHR, C. A.

— *See* MISSIURE, V.

— *See* ROUGHTON, F. J. W.

DILLE, J.: *see* WIGGERS, H. C.

DILLON, J. B.: *see* HERTZMAN, A. B.

DILLON, W. H. and SCHREIBER, H. Interventricular cardiodynamics, 1948, 154: 281

— *See* DUOMARCO, J. L.

— *See* OPDYKE, D. F.

DILUTION INDICATOR TECHNIC

fluid absorption and gastric analyses, 1940, 131: 470

DILUTION PRINCIPLE

for measurement of relative corpuscle and serum volume, 1949, 156: 12

2,3-DIMERCAPTOPROPANOL

diuresis, 1947, 151: 215

3,17-DIMETHYL-Δ-ANDROSTADIENOL-17β: *see* ANDROSTADIENOLS

DIMETHYLβ-CHLOROETHYL AMINE

convulsant activity, 1950, 160: 197

DIMETHYL 2,2-CHLOROPROPYL AMINE

convulsant activity, 1950, 160: 197

DIMETHYL(β-DICHLOROISOPROPYL)AMINE

inhibition of brain cholinesterase, 1950, 160: 192

DIMETHYLPARAPHENYLENEDIAMINE

sodium azide and oxidation, 1939, 126: 207

DIMICK, M. K.: *see* BORSON, H. J.

— *See* LEPKOVSKY, S.

DINGLE, JANET T., KENT, G. T., WILLIAMS, L. L. and WIGGERS, C. J. Quantitative criteria of vasomotor action, 1940, 130: 63

— *See* GREGG, D. E.

DINGWALL, J. A., III: *see* ANDRUS, W. DEW.

2,6-DINITRO-4-CHLOROPHENOL

phenol red transport in fish tubules, 1950, 161: 169

respiration of fish kidney, 1950, 161: 171

See page iii for guide to use of index

- 2,4-DINITRO-6-METHYLPHENOL
phenol red transport in fish tubules, 1950, 161: 169
respiration of fish kidney, 1950, 161: 171
- 2,4-DINITRO-6-PHENYLPHENOL
PAH accumulation in kidney slices, 1950, 161: 189
phenol red transport in fish tubules, 1950, 161: 169
renal electrolyte metabolism, 1951, 167: 208
respiration of fish kidney, 1950, 161: 171
- 2,4-DINITROANISOLE
phenol red transport in fish tubules, 1950, 161: 169
respiration of fish kidney, 1950, 161: 171
- DINITROBENZENES
muscle sensitivity to acetylcholine and potassium, 1946, 145: 610
- 2,4-DINITROPHENOL
blocking of epinephrine cardioacceleration, 1950, 163: 492
body temperature and serum potassium, 1940, 129: 247
cardiac and metabolic effects of, 1944, 141: 34
fever produced by, 1939, 125: 498
glycogen and phosphocreatine of heart, 1943, 138: 653
in liverless and diabetic dogs, 1951, 167: 224
kidney weight, 1938, 121: 107
metabolism and water balance, 1942, 135: 575
muscular atrophy, 1949, 159: 7
oxygen consumption, 1946, 147: 527
PAH accumulation in kidney slices, 1950, 161: 188
potassium secretion, 1950, 161: 154
renal electrolyte metabolism, 1951, 167: 208
renal transport, 1950, 161: 173
respiration of fish kidney, 1950, 161: 171
tubular secretion of phenol red, 1950, 161: 169; 1950, 161: 263
- DINNING, J. S., BRIGGS, H. M., GALLUP, W. D., ORR, H. W. and BUTLER, R. Utilization of urea, 1948, 153: 41
- DIODRAST
absorption from obstructed gall bladder, 1940, 129: 704
clearance, by explanted kidney, 1941, 134: 333
hypophysectomy, 1940, 130: 464
phlorhizin, 1940, 130: 585
testosterone, 1942, 137: 338
distribution between cells of plasma, 1940, 130: 459
estimation of renal function, 1942, 137: 564
PAH accumulation in kidney slices, 1950, 161: 189
potassium secretion, 1950, 161: 153
renal electrolyte metabolism, 1951, 167: 208
Tm, testosterone, 1942, 137: 338
thyroxin, 1944, 140: 701
uric acid excretion, 1951, 164: 156
- DIPALMA, J. R. and MASCATELLO, A. V. Isolated heart muscle characteristics, 1951, 164: 589
— REISS, R. A. Myographic study of heart, 1948, 155: 327
— See JOHNSON, J. R.
— See REISS, R. A.
- 2,4-DI(PARAHYDROXYPHENYL) 3-ETHYL HEXANE: *see* BENZESTROL
- DIPHENYLAMINE
muscle sensitivity to acetylcholine and potassium, 1946, 145: 610
- DIPHENYLHYDANTOIN
acetylcholine metabolism, 1947, 151: 436
asphyxial depolarization potential, 1950, 160: 453
ectopic ventricular tachycardia, 1950, 163: 505
energy-rich phosphates and cardiodynamics in dog heart-lung preparation, 1947, 150: 739
inhibition of brain cholinesterase, 1950, 160: 193
narcosis, 1951, 166: 718
resistance to anoxia, 1944, 141: 7
to decompression, 1944, 141: 7
- DIPHOSGENE
site of action in lungs, 1949, 158: 173
- DIPHTHERIA
insulin resistance in and epinephrine, 1938, 122: 627
toxycosis, distribution of intravenously injected iron, 1951, 165: 350
- DIPROPYLSULFAMYL BENZOIC ACID: *see* BENEMID
- α, α' -DIPYRIDYL
blocking of epinephrine cardioacceleration, 1950, 163: 492
- DIRECT CURRENT
electrical excitability of nerves, 1941, 132: 57
induction of cardiac idioventricular rhythms and fibrillation, 1942, 136: 320
ventricular fibrillation, 1941, 134: 488
production of ventricular fibrillation, 1940, 131: 105
stimulation of myelinated axons and adjacent fibers, 1941, 132: 119
of nerve, 1940, 132: 99
- DISODIUM GLYCEROL PHOSPHATE
metabolic effect of ingestion, 1939, 126: 114
- DISODIUM N-METHYL-3:5-DIODO-4-PYRIDOXYL-2:6-DICARBOXYLATE: *see* NEOIOPAX
- DISTENTION
intestinal, route of afferent fibers, 1945, 144: 720
intestinal blood flow, 1940, 131: 368
intestine, 1942, 135: 653
stimulus for gastric secretion, 1948, 153: 1
- DITHIOCARBAMATE: *see* CARBAMATES, dithio-
- DIURESIS
anterior pituitary, 1939, 127: 519
anti-, mechanism of action, 1947, 148: 266
BAL, 1947, 151: 215
changes in muscle during, 1944, 142: 447
discussion of, 1947, 148: 56
due to drugs, 1944, 142: 249
gelatin solutions, 1944, 142: 248
excretion of glucose during infusion, 1938, 124: 662
of sodium and water during, 1948, 153: 465
exercise, 1947, 148: 331
forced, urea excretion during, 1938, 122: 782
histochemical changes in kidney, 1944, 142: 446
ice water, 1942, 136: 113
in animals with denervated kidney, 1947, 148: 264
intracranial pressure, 1939, 126: 318
K, Ca, and Mg, 1941, 134: 729
kidney weight, 1938, 121: 189
oral saline, optimal concentration for, 1941, 134: 723
pigeon crop-sac response to prolactin, 1939, 127: 422
renin, 1950, 162: 382
salyrgan and bile fistula, 1951, 164: 639
sulfate clearance, 1939, 125: 513
urea production, 1948, 153: 190

DIURESIS, OSMOTIC

- excretion of, anions and chloride, 1950, 162: 668
 chloride, 1950, 160: 536
 sodium and potassium, 1950, 163: 175
 solutes and work, 1949, 157: 363
 solutes, urinary flow and, 1949, 156: 433; 1950, 163: 159
 renal work, 1949, 157: 368

DIURNAL VARIATION

- in reaction time and body temperature, 1938, 121: 496
 of blood sugar, 1943, 139: 109

DIVING

- arterial blood pressure in seal, 1942, 135: 559

DJU, MEI Y., QUAFIE, MARY L. and HARRIS, P. L.

- Utilization of tocopherols by hens, 1950, 160: 259

DOBSON, E. L.: see RANNEY, R. E.**DOCA: see DESOXYCORTICOSTERONE****DOCK, W.** Pitthng and renal hypertension, 1940, 130: 1**DODDS, H.: see BARROWS, E. F.****DOG (studies of — in)**

- absorption of blood by peritoneum, 1948, 153: 277
 acceleration, 1939, 125: 265; 1946, 146: 39; 1947, 150: 7; 1948, 152: 22; 1949, 156: 1; 1949, 156: 137
 acclimatization to high oxygen, 1944, 142: 470
 acetylcholine, 1938, 124: 142; 1940, 128: 467; 1940, 129: 59; 1940, 130: 346; 1941, 133: 106; 1945, 144: 191; 1945, 145: 177; 1947, 150: 506; 1951, 167: 623

- acid-base balance, 1945, 144: 43; 1946, 147: 433

- acute arteriovenous fistula, 1949, 158: 103

- acute methemoglobinemia, 1943, 139: 64

- adenylic acid, 1947, 149: 240

- adrenalectomy, 1938, 122: 446; 1938, 123: 659; 1938, 124: 22; 1939, 125: 668; 1940, 128: 484; 1940, 129: 182; 1940, 129: 533; 1941, 132: 622; 1941, 134: 426; 1941, 134: 503; 1942, 136: 229; 1942, 137: 69; 1942, 137: 362; 1948, 153: 16; 1948, 154: 229; 1949, 159: 124; 1950, 160: 89; 1950, 160: 99; 1950, 161: 21; 1950, 163: 561; 1951, 164: 61; 1951, 165: 306; 1951, 166: 493; 1951, 167: 333; 1951, 167: 462

- adreno-cortical hormones, 1941, 132: 249; 1941, 132: 670; 1941, 134: 426; 1941, 135: 230; 1942, 136: 569; 1942, 137: 606; 1943, 139: 481; 1943, 139: 713; 1948, 153: 16; 1949, 158: 351; 1951, 166: 185; 1951, 166: 493

- adrenotropic receptors, 1948, 153: 586

- afferent phrenic fibers, 1947, 151: 547

- age, 1941, 134: 284; 1943, 139: 366; 1944, 140: 613

- agenized amino acids, 1948, 152: 637; 1948, 154: 439; 1949, 159: 298

- albumin, 1951, 164: 167

- alkali therapy of acidosis, 1948, 154: 480

- amino acids, metabolism, 1939, 126: 217; 1948, 152: 531; 1951, 167: 182; 1951, 167: 201

- plasma level, 1940, 128: 772; 1940, 130: 171; 1946, 146: 657; 1948, 154: 87; 1949, 159: 357

- amphetamine, 1948, 153: 259

- anaphylaxis, 1939, 127: 78; 1940, 130: 379; 1946, 146: 488; 1950, 163: 283

- anemias, 1938, 122: 154; 1941, 134: 746; 1944, 141: 326; 1944, 142: 402; 1945, 143: 194; 1945, 144: 444; 1946, 147: 404

- anesthesia, 1938, 122: 759; 1938, 124: 149; 1940, 130: 34; 1940, 131: 449; 1941, 133: 70; 1941, 134: 350; 1943, 138: 415; 1943, 138: 458; 1943, 140: 177; 1943, 140: 234; 1944, 142: 41; 1945, 143: 108; 1945, 143: 120; 1946, 147: 343; 1949, 157: 116; 1948, 152: 663; 1948, 154: 428; 1948, 154: 745; 1949, 156: 248; 1949, 157: 116; 1950, 163: 622
 anoxemia, 1941, 133: 170; 1947, 148: 393; 1947, 148: 406; 1948, 152: 623

- anoxia, 1940, 129: 533; 1941, 134: 284; 1941, 134: 288; 1942, 137: 606; 1943, 139: 366; 1944, 140: 613; 1944, 141: 176; 1944, 142: 452; 1944, 142: 615; 1945, 143: 145; 1945, 145: 192; 1946, 147: 78; 1946, 147: 616; 1948, 152: 250; 1948, 153: 10; 1948, 153: 16; 1948, 153: 87; 1948, 154: 198; 1948, 154: 201; 1948, 154: 423; 1948, 155: 10; 1950, 160: 138; 1950, 161: 51; 1950, 162: 88; 1951, 165: 215; 1951, 166: 45

- antidiuretic action of ferritin, 1950, 162: 198

- antiproteolytic activity and peptic ulcers, 1950, 160: 349

ANTU, 1949, 156: 35

- arterial pulse, 1939, 125: 1; 1939, 125: 60; 1939, 127: 785; 1943, 138: 718; 1945, 144: 706; 1948, 153: 156; 1949, 158: 287; 1949, 158: 294

- arterio-venous anastomoses, 1948, 152: 48

- arterio-venous distribution of dye, 1950, 161: 221

- ascorbic acid, 1940, 130: 276; 1941, 133: 85; 1951, 166: 374

- asphyxia, 1938, 124: 192; 1946, 147: 433; 1948, 152: 687; 1949, 156: 145

- assay of enterocrinin, 1951, 167: 159

- atropine, 1949, 157: 149

- benadryl and BAL, 1949, 156: 405

- benzene toxicity, 1945, 145: 164; 1945, 145: 172

- bilaterality of portal circulation, 1945, 143: 106

- bile, 1938, 121: 61; 1938, 121: 130; 1938, 121: 270; 1938, 122: 325; 1938, 124: 94; 1938, 124: 379; 1939, 126: 120; 1939, 126: 326; 1940, 129: 271; 1940, 131: 256; 1941, 131: 752; 1941, 132: 176; 1941, 132: 376; 1942, 135: 264; 1942, 135: 776; 1942, 136: 340; 1943, 138: 548; 1944, 141: 480; 1945, 145: 288; 1947, 150: 301; 1948, 153: 444; 1948, 154: 211; 1948, 154: 506; 1950, 163: 48; 1950, 163: 688; 1951, 165: 680

- bile fistula, 1941, 131: 776; 1945, 144: 626; 1951, 164: 639

- bleeding volume, 1943, 140: 420; 1944, 141: 677

- blood and plasma volume, 1938, 121: 800; 1938, 124: 391; 1938, 124: 791; 1939, 125: 148; 1942, 137: 381; 1943, 138: 458; 1945, 143: 249; 1945, 144: 199; 1946, 146: 739; 1947, 148: 164; 1947, 148: 424; 1947, 151: 234; 1947, 151: 297; 1950, 161: 483; 1950, 163: 517; 1951, 164: 611; 1951, 167: 52

- blood coagulation, 1951, 164: 111; 1951, 164: 710

- blood flow, 1938, 122: 790; 1938, 123: 543; 1939, 127: 492; 1940, 128: 338; 1942, 135: 772; 1942, 136: 382; 1947, 148: 648; 1949, 156: 185; 1951, 165: 135; 1951, 166: 37

- blood pH, 1940, 130: 9; 1944, 142: 483
- blood picture, 1947, 150: 620
- blood pressure, 1938, 123: 645; 1939, 125: 50; 1939, 127: 722; 1939, 128: 233; 1940, 129: 289; 1942, 135: 411; 1942, 137: 620; 1943, 140: 226; 1943, 140: 234; 1946, 146: 410; 1948, 154: 120; 1948, 154: 316; 1948, 155: 114; 1949, 158: 89; 1950, 160: 421; 1950, 161: 92; 1950, 162: 553; 1951, 164: 360; 1951, 165: 450; 1951, 166: 296; 1951, 167: 714
- high, 1938, 122: 782; 1938, 124: 603; 1940, 130: 22; 1940, 130: 346; 1941, 131: 799; 1941, 132: 622; 1941, 134: 493; 1942, 135: 361; 1942, 137: 515; 1942, 137: 570; 1943, 138: 465; 1947, 150: 190; 1947, 151: 373; 1948, 153: 336; 1948, 153: 344; 1948, 154: 45; 1948, 154: 397; 1949, 156: 454; 1949, 158: 401; 1950, 160: 437; 1950, 161: 21; 1950, 163: 290; 1950, 163: 554; 1951, 164: 61; 1951, 164: 380; 1951, 166: 185; 1951, 167: 462
- low, 1938, 124: 402; 1945, 145: 513; 1947, 151: 516; 1948, 152: 545; 1948, 155: 107; 1949, 157: 259; 1949, 157: 352; 1950, 160: 17; 1950, 160: 520; 1950, 163: 430
- blood sugar, *see* carbohydrate metabolism
- body fat and body chloride, 1940, 130: 609
- body water, extracellular fluid, 1939, 127: 338; 1940, 129: 744; 1942, 136: 195; 1946, 147: 306; 1947, 148: 201; 1947, 151: 504; 1949, 157: 254; 1949, 157: 387; 1949, 159: 57; 1950, 160: 98; 1950, 160: 99; 1950, 160: 526
- bone marrow, 1941, 131: 768
- brain, acoustic area, 1944, 141: 397; 1945, 144: 394; 1945, 144: 417; 1950, 160: 395; 1950, 162: 489
- circulation, 1938, 122: 207; 1940, 130: 588; 1941, 132: 737; 1946, 146: 467; 1948, 154: 45
- intracranial pressure, 1939, 126: 316; 1940, 128: 662; 1948, 152: 589
- localization of function, 1938, 123: 766; 1938, 124: 117; 1939, 126: 13; 1940, 129: 709; 1941, 135: 202; 1942, 136: 486; 1942, 137: 468; 1946, 147: 311; 1946, 147: 500; 1949, 159: 239; 1950, 160: 485; 1951, 166: 45; 1951, 166: 712; 1951, 167: 127
- metabolism, 1941, 132: 454; 1943, 140: 190; 1944, 142: 545; 1946, 146: 390; 1948, 155: 60; 1948, 155: 191
- bromide and inulin space, 1950, 162: 321
- BSP excretion, 1947, 150: 301; 1948, 155: 286; 1950, 162: 565
- buoyancy of body and respiratory modifiers, 1942, 137: 136
- calcium, 1938, 121: 580; 1938, 122: 428; 1939, 125: 167; 1939, 126: 66; 1940, 129: 758; 1942, 135: 419; 1942, 135: 577; 1943, 139: 299; 1944, 142: 105; 1945, 143: 358; 1947, 148: 213; 1949, 158: 205; 1950, 160: 330
- calculated femoral resistance, 1949, 159: 471
- callicrein, 1944, 142: 519
- capillary permeability, 1942, 137: 69; 1943, 138: 495; 1943, 140: 1; 1948, 154: 16
- carbohydrate metabolism and blood sugar, 1938, 122: 759; 1938, 124: 295; 1938, 124: 558; 1939, 125: 192; 1939, 125: 228; 1939, 125: 551; 1939, 127: 685; 1939, 127: 745; 1940, 129: 784; 1940, 130: 256; 1942, 136: 592; 1942, 137: 124; 1942, 137: 671; 1943, 138: 396; 1944, 141: 3; 1944, 142: 638; 1945, 143: 279; 1945, 143: 585; 1945, 144: 233; 1946, 147: 379; 1947, 150: 588; 1948, 152: 250; 1948, 154: 107; 1948, 154: 423; 1948, 155: 10; 1948, 155: 15; 1949, 156: 87; 1949, 158: 358; 1949, 158: 418; 1950, 160: 228; 1951, 165: 604; 1951, 166: 213
- carbon dioxide, 1938, 124: 491; 1939, 128: 1; 1940, 129: 524; 1948, 152: 22; 1951, 165: 334
- carbonic anhydrase, 1940, 128: 725
- cardiovascular responses, 1938, 121: 1; 1941, 134: 65; 1943, 139: 35; 1944, 142: 116; 1944, 142: 366; 1945, 143: 361; 1945, 144: 166; 1945, 144: 206; 1949, 157: 158; 1950, 160: 511; 1950, 161: 106; 1951, 165: 135; 1951, 167: 734
- carotid body reflexes, 1938, 121: 75; 1938, 124: 238; 1939, 127: 94; 1939, 128: 1; 1941, 133: 1
- carotid sinus reflex, 1947, 150: 712; 1947, 150: 722
- cell-plasma relation of circulating blood, 1941, 132: 411
- cerebral constituents and blood gases, 1949, 156: 149
- cerebrospinal fluid, 1938, 121: 719; 1938, 123: 747; 1940, 131: 67; 1945, 143: 83; 1947, 148: 253; 1949, 157: 394
- cessation of walking and forebrain stimulation, 1951, 167: 127
- chemoreceptors, 1939, 127: 176
- cholecystokinin, 1938, 124: 379; 1941, 134: 734
- cholesterol, 1948, 154: 16
- cholinesterase, 1945, 143: 552; 1947, 150: 750
- chymotrypsin, 1945, 143: 644
- cinchophen, 1950, 163: 34
- circulation, 1941, 132: 93; 1941, 132: 351; 1941, 134: 503; 1944, 142: 721
- circulation time, 1947, 148: 69; 1947, 150: 506
- circulatory failure, 1938, 123: 659; 1938, 124: 22; 1941, 132: 249; 1942, 136: 569; 1942, 137: 362; 1942, 137: 606; 1951, 165: 306
- CNS action of bacterial pyrogen, 1949, 159: 209
- cobalt, 1941, 134: 746; 1946, 145: 288
- cofactor of thromboplastin, 1947, 150: 381
- colon motility, 1938, 121: 130; 1940, 128: 514; 1940, 130: 69; 1940, 131: 428
- composition of aqueous humour, 1941, 134: 3
- of milk, 1940, 129: 631
- of prostatic fluid, 1940, 130: 290
- of uterine fluid, 1940, 130: 290
- conditioned reflexes, 1938, 123: 379; 1938, 124: 136; 1939, 125: 265; 1940, 128: 754; 1941, 132: 81; 1942, 136: 788; 1946, 145: 433; 1946, 146: 282; 1946, 147: 454; 1949, 159: 525; 1950, 160: 462
- conductivity of tissues in contact with heart, 1939, 125: 627
- connection between gall bladder and liver lymphatics, 1941, 133: 80
- continuous intravenous administration of nutritive solutions, 1949, 159: 409
- cross-circulation experiments, 1949, 157: 197

Dog (studies of — in)

- crossed phrenic phenomenon, 1941, 134: 102; 1951, 166: 241
- decerebrate, 1942, 137: 252; 1950, 162: 74
- decompression, 1944, 142: 483; 1946, 147: 289; 1947, 148: 253; 1950, 161: 417
- degeneration and regeneration of nerve, 1946, 147: 550
- dehydration, 1945, 145: 155; 1946, 147: 49; 1946, 147: 399; 1947, 151: 564; 1948, 152: 66
- depancreatized, 1939, 127: 581; 1939, 127: 755; 1940, 128: 305; 1940, 129: 17; 1940, 129: 784; 1940, 131: 437; 1941, 135: 134; 1942, 136: 597; 1942, 138: 42; 1943, 138: 792; 1947, 148: 312; 1949, 159: 108; 1951, 164: 486
- diabetes, 1940, 130: 145; 1941, 132: 418; 1947, 148: 312; 1951, 167: 193
- diabetes insipidus, 1941, 134: 240; 1941, 135: 102; 1944, 141: 189; 1950, 160: 321
- diabetes, phlorizin, 1939, 128: 111; 1940, 130: 145; 1940, 130: 582
- dibenamine, 1950, 161: 116; 1950, 161: 125
- dicumarol, 1945, 143: 101; 1946, 145: 453
- dietary essentials, 1940, 130: 365
- dietary sodium chloride, 1949, 159: 149
- diphosgene, 1949, 158: 173
- disappearance of galactose, 1944, 141: 368
- labeled gold colloids, 1951, 164: 345
- tyrosine, 1942, 136: 460
- diuresis, 1938, 122: 782; 1938, 124: 662; 1941, 134: 240; 1941, 134: 723; 1941, 134: 729; 1943, 138: 465; 1944, 142: 249; 1947, 148: 259; 1947, 151: 215; 1948, 153: 190; 1951, 167: 473
- drainage of respiratory tract fluid in, 1944, 140: 467
- Eck fistula, 1941, 133: 566; 1946, 146: 488; 1951, 167: 193
- efferent pathways of chemo-reflex vasomotor reactions, 1945, 143: 220
- electrocardiogram, 1938, 124: 478; 1939, 125: 167; 1939, 126: 724; 1940, 130: 130; 1941, 131: 687; 1941, 131: 700; 1942, 135: 751; 1942, 136: 726; 1943, 139: 202; 1943, 140: 148; 1944, 142: 452; 1946, 145: 615; 1947, 149: 264; 1948, 153: 176; 1948, 153: 529; 1948, 153: 540; 1948, 153: 547; 1948, 155: 215; 1949, 159: 476; 1950, 160: 366; 1951, 167: 441; 1951, 167: 728
- electroencephalogram, 1939, 125: 551
- electrokymograph, 1950, 161: 236; 1950, 163: 475
- electrolyte balance, 1940, 128: 635; 1941, 135: 167; 1942, 135: 591; 1942, 137: 386; 1946, 147: 399; 1949, 159: 57; 1949, 159: 67; 1950, 160: 89; 1950, 162: 338; 1951, 164: 415
- electrotonic nervous integration, 1947, 148: 515
- enterocrinin, 1938, 121: 483
- enterogastrone, 1944, 141: 283
- ephedrine, 1951, 167: 59
- epinephrine, 1938, 123: 543; 1938, 123: 668; 1939, 126: 710; 1940, 130: 193; 1941, 131: 545; 1941, 132: 9; 1941, 133: 106; 1942, 136: 90; 1942, 137: 124; 1942, 137: 717; 1945, 143: 135; 1945, 144: 321; 1947, 150: 588; 1948, 152: 623; 1949, 157: 116; 1950, 161: 51; 1950, 162: 231; 1951, 165: 319; 1951, 165: 430
- ergotamine, 1940, 129: 59
- erythrocytes, 1938, 122: 418; 1944, 141: 363; 1944, 142: 66; 1946, 147: 421; 1946, 147: 499; 1948, 153: 326; 1951, 166: 323
- lysis and permeability, 1941, 135: 93; 1943, 140: 349; 1944, 140: 556; 1944, 142: 214; 1949, 158: 81; 1950, 162: 610; 1951, 164: 423
- excretion, 1941, 134: 623; 1942, 135: 591; 1942, 136: 229; 1946, 145: 288; 1946, 145: 633; 1947, 149: 355; 1947, 150: 373; 1947, 150: 421; 1948, 152: 93; 1948, 153: 444; 1949, 158: 205; 1950, 162: 198; 1950, 162: 565; 1950, 162: 649; 1951, 165: 87; 1951, 165: 434; 1951, 166: 202; 1951, 167: 563
- exercise, 1938, 122: 105; 1939, 125: 617; 1940, 128: 420; 1943, 138: 539; 1943, 138: 687; 1950, 162: 54; 1950, 162: 64
- experimental obesity, 1944, 141: 549
- extracellular fluid, *see* body water
- 933F, 1939, 127: 29
- fetal circulation, 1950, 162: 147
- fibrinogen, 1950, 162: 619
- food intake, 1948, 153: 27; 1949, 159: 143; 1951, 164: 182
- function of anterior cardiac veins, 1943, 139: 732
- gas tensions in blood, 1950, 160: 172
- gaseous exchange between blood vessels and lungs, 1941, 133: 88
- gastric motility, 1938, 121: 350; 1939, 126: 28; 1941, 134: 805; 1942, 137: 22; 1942, 137: 153; 1942, 137: 160; 1942, 137: 234; 1947, 148: 338; 1948, 153: 259; 1950, 162: 447; 1951, 164: 268
- gastric secretion, 1938, 122: 631; 1939, 127: 637; 1939, 128: 10; 1940, 129: 505; 1940, 131: 165; 1940, 131: 378; 1941, 132: 52; 1941, 132: 504; 1941, 132: 654; 1942, 135: 660; 1942, 137: 419; 1943, 138: 341; 1943, 139: 325; 1943, 139: 357; 1943, 139: 364; 1944, 140: 708; 1944, 141: 256; 1944, 141: 283; 1944, 141: 456; 1945, 144: 115; 1945, 144: 701; 1947, 149: 162; 1947, 149: 724; 1947, 151: 593; 1948, 152: 645; 1948, 153: 242; 1948, 153: 447; 1949, 156: 248; 1949, 158: 194; 1950, 160: 567; 1950, 161: 47; 1950, 162: 99; 1950, 162: 136; 1951, 164: 187; 1951, 165: 1; 1951, 165: 386; 1951, 166: 679
- gastrin, 1950, 163: 27
- gelatin, 1943, 138: 495; 1943, 139: 438; 1944, 140: 636
- genetic variability, 1951, 166: 20
- growth and hemoglobin in, on purified diet, 1945, 145: 24
- heart, 1938, 122: 34; 1938, 122: 639; 1938, 123: 272; 1938, 124: 423; 1938, 124: 719; 1938, 124: 744; 1939, 125: 461; 1939, 126: 338; 1939, 127: 22; 1939, 127: 272; 1939, 128: 247; 1940, 130: 43; 1941, 131: 760; 1941, 132: 322; 1941, 132: 781; 1941, 134: 319; 1941, 134: 513; 1942, 136: 117; 1942, 136: 332; 1943, 138: 644; 1943, 139: 451; 1943, 139: 732; 1944, 142: 52; 1945, 143: 80; 1945, 143: 396; 1945, 143: 723; 1945, 144: 563; 1945, 145: 177; 1946, 146: 478; 1946, 147: 270; 1947, 148: 4; 1947, 148: 25; 1947, 148: 229; 1947, 148: 435; 1947, 150: 292; 1948, 152: 545; 1948,

- 153: 558; 1948, 154: 6; 1948, 154: 269; 1948, 154: 281; 1948, 154: 328; 1949, 157: 248; 1949, 157: 254; 1949, 158: 237; 1949, 158: 241; 1949, 159: 492; 1950, 160: 556; 1950, 161: 489; 1950, 162: 213; 1950, 162: 259; 1950, 162: 508; 1950, 163: 130; 1950, 163: 260; 1950, 163: 272; 1950, 163: 469; 1951, 164: 79; 1951, 164: 574; 1951, 164: 601; 1951, 164: 832; 1951, 165: 264; 1951, 165: 285; 1951, 165: 497; 1951, 166: 12; 1951, 166: 289; 1951, 166: 603; 1951, 166: 610; 1951, 167: 435
- atrial septal defects, 1949, 158: 241; 1950, 162: 508; 1951, 164: 574
- cardiac output, 1941, 133: 642; 1941, 134: 74; 1944, 140: 687; 1945, 143: 709; 1946, 147: 499; 1947, 148: 136; 1947, 151: 34; 1949, 159: 385; 1949, 159: 389; 1950, 161: 236; 1950, 161: 231; 1951, 164: 583; 1951, 165: 278; 1951, 166: 262; 1951, 167: 721
- coronary circulation, 1938, 122: 252; 1938, 124: 435; 1939, 125: 617; 1939, 126: 283; 1939, 126: 395; 1939, 128: 179; 1942, 135: 271; 1942, 136: 474; 1943, 139: 726; 1944, 141: 382; 1944, 142: 46; 1945, 143: 245; 1945, 143: 479; 1947, 148: 582; 1947, 148: 726; 1947, 149: 634; 1947, 151: 13; 1950, 160: 149; 1950, 160: 177; 1950, 160: 366; 1950, 162: 266; 1951, 165: 135
- fibrillation, 1940, 128: 503; 1940, 131: 104; 1940, 131: 119; 1940, 131: 296; 1940, 131: 309; 1941, 133: 634; 1941, 133: 651; 1941, 134: 473; 1949, 159: 137; 1950, 162: 219; 1951, 164: 301; 1951, 167: 81; 1951, 167: 88
- rate, 1942, 137: 728; 1943, 138: 468; 1945, 143: 135; 1948, 153: 553; 1950, 163: 505; 1951, 165: 505; 1951, 167: 76; 1951, 167: 614
- stroke volume, 1943, 139: 53; 1947, 148: 14; 1948, 153: 287; 1948, 154: 273; 1950, 162: 273
- heart-lung preparations, 1942, 136: 506; 1943, 138: 212; 1945, 143: 463; 1945, 143: 495; 1945, 143: 507; 1945, 144: 191; 1947, 150: 733
- heat production, weight and body surface, 1947, 148: 480
- hematocrit, 1942, 137: 717; 1947, 148: 424; 1947, 149: 317; 1951, 165: 609
- hemoglobin values in adult, 1944, 142: 476
- heparin, 1939, 125: 98; 1947, 150: 697; 1951, 165: 195
- hepatectomy, 1938, 124: 295; 1940, 130: 379; 1945, 145: 208; 1946, 146: 674; 1948, 155: 107; 1949, 159: 73; 1950, 160: 421; 1951, 164: 792; 1951, 167: 201
- hepatic mass, 1948, 152: 42
- Hering-Breuer reflexes, 1942, 136: 8
- high altitude, 1942, 136: 494; 1948, 153: 16; 1949, 159: 77
- histaminase, 1941, 132: 52; 1948, 153: 447
- histamine, 1939, 127: 78; 1941, 131: 768; 1941, 132: 327; 1942, 137: 225; 1944, 140: 737; 1946, 145: 486; 1947, 148: 136; 1947, 150: 421; 1947, 151: 593; 1950, 162: 115
- humoral intermediation of nerve cell activation, 1943, 138: 776
- hydatid fluid, 1945, 143: 306
- beta-hydroxybutyric acid utilization, 1938, 123: 272
- hypnotoxin theory of sleep, 1939, 125: 491
- hypochloremia, 1940, 129: 597
- hypothalamico-hypophysial system, 1941, 133: 582
- hypothermia, 1946, 146: 264; 1948, 152: 225; 1948, 152: 408; 1949, 157: 436; 1949, 159: 365; 1950, 161: 455; 1950, 163: 580; 1951, 164: 79; 1951, 166: 55; 1951, 167: 63; 1951, 167: 69
- incorporation of chromatin into liver nuclei, 1945, 143: 236
- indole, 1942, 136: 648
- inferior vena cava flow, 1947, 148: 740; 1947, 148: 745
- infusion after trauma and hemorrhage, 1942, 137: 355; 1947, 150: 642
- insulin, 1938, 123: 608; 1938, 124: 202; 1939, 125: 228; 1939, 125: 668; 1939, 127: 581; 1939, 128: 81; 1940, 129: 17; 1940, 129: 782; 1942, 136: 592; 1942, 136: 597; 1947, 149: 102; 1948, 152: 250; 1949, 159: 108; 1950, 163: 70
- intestine, absorption, 1939, 125: 709; 1939, 128: 81; 1939, 128: 93; 1940, 129: 176; 1940, 129: 182; 1940, 131: 402; 1941, 132: 202; 1941, 134: 37; 1941, 134: 288; 1942, 135: 264; 1942, 135: 776; 1942, 136: 340; 1942, 138: 149; 1943, 138: 792; 1944, 141: 488; 1945, 144: 457; 1945, 144: 468; 1947, 150: 468; 1948, 153: 264; 1950, 153: 1
- motility, 1938, 123: 424; 1939, 126: 28; 1939, 126: 241; 1939, 128: 70; 1944, 141: 642; 1944, 142: 261; 1944, 142: 615; 1945, 143: 407; 1949, 157: 338; 1949, 158: 119; 1949, 158: 201; 1951, 164: 268; 1951, 167: 399
- secretion, 1940, 129: 147; 1940, 131: 256; 1943, 138: 237; 1944, 141: 590; 1944, 141: 602; 1949, 158: 122; 1949, 158: 129; 1949, 159: 89; 1950, 162: 110
- intra-abdominal pressure, 1947, 149: 292
- intraperitoneal and intrarectal pressure, 1946, 147: 242
- intrathoracic pressure and circulation, 1944, 142: 594
- intravenous injection of glycogen, 1950, 161: 556
- intravenous oxygen, 1939, 127: 228
- intravenous sulfocyanate, 1942, 138: 126
- iso-agglutination in blood, 1948, 154: 525
- isohemagglutination, 1940, 131: 203
- joint reflexes, 1948, 153: 567
- ketonemia, 1941, 135: 134
- kidney, 1938, 123: 383; 1943, 139: 504; 1949, 156: 443; 1951, 165: 442
- anatomy, 1943, 139: 510; 1950, 161: 250; 1951, 165: 548
- circulation, 1939, 126: 354; 1942, 135: 361; 1944, 142: 355; 1944, 142: 358; 1946, 145: 376; 1946, 145: 699; 1946, 147: 537; 1947, 148: 684; 1947, 150: 190; 1948, 152: 517; 1948, 152: 523; 1948, 153: 159; 1948, 153: 169; 1950, 160: 547; 1951, 165: 399; 1951, 166: 199; 1951, 167: 523; 1951, 167: 541
- clearance, 1939, 126: 354; 1940, 130: 464; 1941, 134: 333; 1942, 136: 716; 1944, 140: 690; 1944, 140: 697; 1944, 142: 188; 1945, 144: 403; 1946, 145: 376; 1946, 145: 634; 1946, 145: 699; 1946, 146: 331; 1946, 146: 352; 1947, 149: 130; 1947, 151: 192; 1948, 154: 167; 1949, 159: 181; 1949,

- 159: 369; 1950, 160: 325; 1950, 162: 639; 1950, 163: 461; 1951, 165: 328; 1951, 166: 400
- excretion, 1938, 122: 782; 1939, 125: 506; 1939, 125: 566; 1941, 133: 562; 1942, 137: 658; 1943, 140: 334; 1945, 144: 241; 1946, 147: 153; 1946, 147: 481; 1949, 158: 228; 1949, 159: 542; 1950, 160: 311; 1950, 160: 353; 1950, 161: 191; 1950, 162: 655; 1950, 163: 159; 1950, 163: 454; 1951, 164: 155; 1951, 164: 156; 1951, 164: 654; 1951, 165: 429; 1951, 166: 262; 1951, 166: 641; 1951, 166: 642
- function, 1938, 123: 566; 1939, 125: 786; 1940, 129: 698; 1940, 130: 582; 1942, 137: 338; 1943, 139: 155; 1943, 139: 543; 1943, 140: 234; 1943, 140: 242; 1943, 140: 260; 1944, 140: 701; 1945, 143: 108; 1946, 145: 314; 1946, 146: 146; 1947, 149: 404; 1948, 154: 198; 1948, 154: 201; 1948, 154: 220; 1948, 154: 229; 1949, 156: 67; 1949, 156: 79; 1949, 157: 1; 1949, 157: 47; 1950, 161: 442; 1951, 164: 143; 1951, 164: 497; 1951, 164: 682; 1951, 165: 93; 1951, 165: 278; 1951, 166: 625; 1951, 166: 649; 1951, 166: 666; 1951, 167: 241; 1951, 167: 689
- glomeruli, 1939, 128: 160; 1940, 130: 355; 1942, 136: 38; 1947, 151: 168; 1949, 159: 175; 1951, 164: 647; 1951, 166: 416; 1951, 167: 546
- metabolism, 1938, 122: 38; 1946, 145: 337; 1946, 146: 58; 1948, 153: 55; 1948, 154: 542; 1949, 156: 345; 1950, 163: 181; 1951, 165: 423
- tubular function, 1938, 122: 765; 1938, 122: 775; 1938, 123: 281; 1941, 133: 752; 1941, 134: 785; 1941, 135: 113; 1943, 139: 103; 1943, 140: 156; 1944, 140: 535; 1944, 142: 653; 1946, 145: 491; 1947, 148: 446; 1947, 151: 311; 1948, 154: 537; 1948, 155: 42; 1949, 159: 124; 1950, 161: 151; 1950, 161: 159; 1950, 161: 173; 1950, 163: 436; 1951, 164: 670; 1951, 165: 109; 1951, 165: 407; 1951, 167: 531
- kidney and shock, 1942, 136: 276; 1947, 150: 702
- lactic acid, 1943, 140: 125; 1946, 146: 146; 1947, 148: 324
- ligation of pancreatic ducts, 1938, 122: 43
- lingo-maxillary reflex, 1943, 139: 417
- lipase, 1949, 159: 337; 1951, 164: 486; 1951, 166: 413
- lipids of blood, 1938, 123: 558; 1941, 133: 566; 1941, 134: 773; 1946, 145: 660; 1951, 164: 33; 1951, 164: 806; 1951, 167: 403
- lithium, 1951, 166: 202
- liver, circulation, 1941, 132: 376; 1944, 141: 480; 1946, 146: 192; 1947, 148: 302; 1949, 159: 357; 1951, 165: 527
- fatty and liver lipids, 1939, 127: 755; 1940, 129: 581; 1942, 138: 42; 1943, 138: 352; 1946, 145: 667; 1947, 148: 240
- function, 1948, 124: 94; 1942, 136: 762; 1943, 138: 370; 1943, 139: 642; 1946, 145: 646; 1949, 159: 351; 1951, 165: 680
- metabolism, 1938, 124: 530; 1938, 124: 558; 1939, 125: 658; 1940, 131: 10; 1940, 131: 522; 1941, 132: 679; 1943, 139: 556; 1947, 148: 302; 1947, 148: 312; 1947, 149: 611; 1949, 158: 305; 1949, 158: 332; 1949, 159: 351; 1951, 167: 738
- lung vessel pressures and edema, 1950, 161: 336
- lymph flow and composition, 1938, 124: 466; 1939, 126: 20; 1939, 127: 154; 1940, 130: 34; 1940, 130: 43; 1940, 131: 331; 1941, 133: 64; 1942, 136: 210; 1942, 137: 641; 1943, 139: 307; 1944, 142: 284; 1946, 146: 666; 1947, 150: 750; 1948, 154: 475; 1950, 163: 41; 1950, 163: 668; 1951, 165: 15
- massive transfusion and hemorrhage, 1950, 163: 529
- mesenteric circulation, 1945, 143: 182; 1947, 149: 732
- Mg metabolism, 1939, 126: 724; 1939, 126: 728; 1939, 127: 486; 1942, 135: 494; 1948, 152: 407; 1951, 164: 702
- morphine, 1940, 131: 428; 1947, 148: 269; 1949, 157: 259
- motion sickness, 1948, 154: 443
- motor integration, 1943, 139: 745
- motor neurons, 1949, 159: 15
- muscle, 1938, 122: 48; 1938, 122: 569; 1938, 123: 687; 1942, 137: 187; 1942, 137: 252; 1944, 142: 218; 1945, 143: 120; 1947, 150: 705; 1950, 163: 561; 1951, 164: 734; 1951, 165: 716
- metabolism, 1940, 129: 195; 1951, 166: 121
- muscularis mucosae of the small intestine, 1947, 148: 667
- myenteric reflex, 1949, 157: 329
- necrosin, 1946, 147: 379
- nephrectomy, 1938, 122: 609; 1938, 124: 569; 1950, 160: 335; 1950, 160: 341; 1951, 165: 102; 1951, 165: 167; 1951, 167: 553
- nervous control of esophagus, 1948, 154: 346
- neurine, 1943, 139: 364
- nitrogen balances, 1949, 159: 415
- nitrogen mustard intoxication, 1948, 155: 295
- nitrogen storage, 1951, 165: 486
- non-absorption of emulsified mineral oil, 1950, 162: 80
- normal water drinking, 1943, 139: 39
- nutritive density and food intake, 1949, 158: 184
- O₂ in bone marrow blood, and erythropoiesis, 1947, 150: 618
- olfactory cortical potentials, 1943, 139: 553
- osmotic diuresis, 1948, 153: 465; 1950, 160: 536; 1950, 162: 668; 1950, 163: 175
- osmotic pressure, 1945, 144: 311; 1948, 152: 471
- osmotic relation of blood plasma to aqueous humor, 1940, 130: 340
- osteoporosis, 1938, 121: 137
- oxidation of ethyl alcohol, 1939, 127: 308
- oxygen consumption, 1948, 153: 75
- oxygen transport and utilization, 1950, 160: 125
- pancreatic secretion, 1941, 131: 578; 1941, 132: 305; 1941, 134: 208; 1941, 134: 656; 1943, 138: 352; 1943, 138: 548; 1944, 140: 574; 1945, 145: 140; 1946, 145: 288; 1947, 148: 240; 1950, 162: 115; 1950, 163: 34
- panting, 1938, 121: 747; 1938, 122: 511
- pantothenic acid, 1946, 145: 633
- parathyroid, 1940, 129: 766; 1942, 135: 419; 1947, 150: 421; 1951, 165: 434
- passage of sorbitol from blood to aqueous humor, 1939, 125: 652
- pathway from medial geniculate body acoustic cortex, 1946, 147: 311
- penicillin excretion, 1947, 149: 355

- peripheral nerves, 1946, 147: 78
- peripheral vascular resistance, 1944, 140: 687; 1948, 155: 132
- phosgene gassing, 1946, 147: 329
- phosphatase, 1948, 153: 444; 1949, 156: 256; 1951, 164: 792
- phosphorus distribution, 1939, 126: 66; 1941, 133: 116; 1941, 134: 42; 1943, 139: 299; 1944, 142: 290; 1945, 145: 87; 1946, 145: 542; 1947, 149: 423; 1948, 154: 185
- physiological effects of fibrinolysin, 1947, 150: 472
- physiological measurements, 1938, 124: 517
- pilocarpine, 1941, 132: 698
- pituitary, 1938, 122: 428; 1938, 124: 142; 1939, 127: 552; 1939, 128: 111; 1940, 130: 464; 1941, 133: 582; 1942, 136: 592; 1942, 137: 124; 1942, 137: 671; 1945, 144: 311; 1947, 150: 223; 1949, 156: 67; 1948, 152: 591; 1951, 165: 486; 1951, 167: 563
- plasma substitutes, 1944, 141: 335; 1951, 165: 205
- plasma-interstitial movement of inulin, 1950, 160: 532 *
- pneumothorax, 1942, 135: 541; 1949, 159: 394
- polycythemia, 1938, 122: 397; 1939, 125: 607; 1939, 127: 322; 1940, 128: 347; 1941, 134: 219; 1951, 165: 399; 1951, 167: 59
- polyethylene glycols, 1948, 152: 93
- potassium metabolism, 1938, 124: 478; 1939, 126: 338; 1939, 126: 710; 1939, 127: 430; 1940, 129: 246; 1940, 129: 758; 1940, 130: 562; 1941, 132: 9; 1941, 135: 93; 1943, 138: 499; 1943, 139: 686; 1944, 142: 628; 1945, 145: 223; 1947, 148: 449; 1949, 156: 290; 1950, 161: 289; 1950, 162: 348; 1950, 163: 154; 1950, 163: 622; 1951, 164: 702; 1951, 167: 515
- pregnancy, 1938, 122: 34; 1942, 137: 386
- pressorceptor-autonomic oscillation, 1951, 165: 158
- progressive paralysis in, cured with biotin, 1945, 144: 175
- prostatic fluid, 1943, 139: 129
- protein of pericardial fluid, 1940, 129: 637
- protein binding of PAH, 1951, 167: 248
- proteins of blood and plasma, 1940, 128: 334; 1942, 136: 299; 1944, 141: 573; 1945, 144: 369; 1946, 146: 674; 1947, 151: 71; 1949, 159: 73; 1950, 162: 153
- prothrombin, 1939, 125: 297; 1941, 132: 242; 1941, 132: 666; 1945, 145: 208; 1946, 145: 358; 1946, 145: 543; 1947, 148: 213; 1948, 154: 136; 1949, 159: 40; 1949, 159: 316; 1951, 165: 188
- pulmonary arterial occlusion, 1951, 164: 254
- pulmonary arteriovenous fistula, 1951, 165: 513
- pulmonary capillary pressure, 1948, 155: 98
- pulmonary congestion and lung distensibility, 1947, 150: 659
- pulmonary vascular resistance, 1951, 167: 756
- pupillary regulation, 1941, 133: 106
- pyridoxine deficiency, 1946, 146: 724
- rapid transfusion and hemorrhage, 1951, 164: 351
- receptor area of Bainbridge, reflex, 1941, 135: 202
- rectal temperature, 1942, 137: 33
- renal hypertension, 1938, 123: 224; 1940, 128: 436; 1940, 130: 499; 1940, 130: 568; 1940, 130: 784; 1946, 147: 647; 1949, 156: 422; 1949, 157: 21; 1950, 161: 435
- renin and angiotonin, 1940, 128: 484; 1941, 134: 789; 1941, 135: 88; 1942, 136: 733; 1942, 137: 47; 1944, 141: 132; 1946, 146: 666
- repair of patent ductus arteriosus, 1943, 139: 451
- respiration, 1938, 121: 75; 1938, 124: 491; 1939, 127: 228; 1939, 128: 1; 1940, 128: 276; 1940, 128: 617; 1940, 129: 623; 1940, 130: 155; 1941, 132: 571; 1941, 133: 1; 1941, 133: 642; 1941, 133: 694; 1941, 134: 74; 1942, 135: 541; 1943, 138: 539; 1943, 138: 610; 1944, 142: 52; 1944, 142: 125; 1945, 143: 145; 1945, 144: 126; 1947, 148: 406; 1947, 149: 24; 1947, 150: 79; 1947, 150: 659; 1948, 153: 567; 1948, 154: 185; 1948, 154: 273; 1948, 154: 428; 1948, 155: 98; 1949, 158: 157; 1950, 160: 138; 1950, 161: 51; 1950, 162: 54; 1950, 162: 64; 1950, 162: 74; 1951, 165: 334; 1951, 166: 255
- electrophrenic, 1948, 155: 1; 1948, 155: 203; 1950, 163: 118
- riboflavin, 1939, 125: 323; 1940, 128: 703; 1941, 133: 555; 1951, 165: 604
- role of thebesian and luminal vessels of, 1941, 132: 648
- rotameter measurement, 1950, 160: 183
- salivary glands, 1938, 123: 379; 1941, 134: 446; 1941, 135: 167; 1945, 144: 43
- salyrgan diuresis, 1951, 164: 639
- secretin, 1939, 128: 122; 1941, 132: 305; 1951, 164: 527
- secretinase, 1941, 133: 121
- secretory functions of sympathetic neurones, 1947, 148: 461
- segmental innervation of antagonistic muscles, 1943, 138: 773
- serum amylase, 1938, 122: 428
- sex functions, 1948, 152: 591
- shock, 1941, 131: 545; 1941, 134: 426; 1941, 134: 755; 1942, 137: 280; 1942, 137: 589; 1942, 138: 1; 1943, 138: 499; 1943, 139: 386; 1943, 139: 481; 1943, 139: 686; 1944, 140: 490; 1944, 141: 132; 1944, 141: 209; 1944, 141: 573; 1944, 142: 299; 1944, 142: 519; 1945, 143: 89; 1945, 143: 306; 1945, 143: 552; 1945, 143: 644; 1946, 145: 273; 1946, 145: 314; 1946, 145: 337; 1947, 148: 269; 1947, 148: 289; 1947, 148: 726; 1948, 153: 75; 1950, 160: 437; 1951, 165: 179; 1951, 167: 499; 1951, 167: 508
- anaphylactic, *see* anaphylaxis
- gravity, 1944, 141: 227; 1951, 165: 541
- hemorrhagic, 1940, 128: 334; 1942, 136: 276; 1942, 136: 421; 1943, 138: 450; 1944, 140: 687; 1944, 140: 737; 1944, 142: 578; 1945, 143: 127; 1945, 143: 182; 1945, 143: 200; 1945, 143: 249; 1945, 143: 257; 1945, 144: 91; 1945, 144: 206; 1945, 144: 217; 1945, 144: 233; 1945, 144: 505; 1945, 144: 595; 1946, 145: 699; 1946, 146: 192; 1946, 146: 431; 1946, 147: 270; 1946, 147: 685; 1947, 148: 424; 1947, 149: 52; 1947, 149: 423; 1947, 149: 732; 1947, 150: 248; 1947, 150: 272; 1948, 153: 511; 1948, 154: 297; 1949, 156: 191; 1949, 156: 202; 1949, 156: 210; 1949, 157: 254;

- 1950, 161: 106; 1950, 161: 116; 1950, 162: 243; 1950, 162: 619
- histamine, 1941, 133: 64; 1944, 142: 158
- tourniquet, 1942, 138: 156; 1944, 142: 494; 1945, 145: 151; 1946, 146: 254; 1947, 151: 554
- traumatic, 1942, 136: 33; 1942, 137: 710; 1943, 139: 299; 1943, 139: 307; 1943, 139: 313; 1943, 140: 197; 1944, 141: 54; 1944, 141: 713; 1944, 142: 290; 1945, 143: 589; 1945, 144: 429; 1945, 144: 595; 1947, 148: 69; 1947, 148: 98; 1947, 148: 201; 1947, 148: 449; 1947, 149: 52; 1947, 149: 112; 1947, 149: 240; 1947, 150: 693; 1947, 150: 702; 1948, 152: 531; 1950, 161: 125
- smooth muscle contractility and metabolism, 1950, 162: 88
- sodium metabolism, 1941, 131: 578; 1944, 142: 27; 1944, 142: 407; 1949, 159: 124; 1951, 164: 407; 1951, 164: 437; 1951, 167: 333
- spinal cord, transection, 1938, 122: 506; 1938, 124: 106; 1942, 137: 710
- spleen, 1938, 121: 387; 1939, 125: 607; 1939, 127: 119; 1943, 138: 415; 1947, 151: 282; 1950, 160: 295; 1951, 165: 215
- stimulus pattern and reflex deglutition, 1951, 166: 142
- succinate oxidation, 1951, 166: 104
- sympathetic nervous system, 1940, 130: 306; 1941, 133: 70; 1942, 135: 759; 1943, 139: 351; 1950, 160: 212; 1950, 160: 441; 1951, 165: 505; 1951, 166: 679
- synovial membrane and fluid, 1946, 146: 6; 1948, 153: 364; 1949, 159: 83
- TEA, 1948, 153: 601; 1949, 157: 158; 1949, 158: 403; 1950, 161: 245
- temperature, environmental, 1938, 122: 511; 1938, 124: 264; 1940, 128: 739; 1940, 129: 623; 1941, 131: 700; 1943, 139: 574; 1947, 150: 693; 1947, 151: 564; 1951, 166: 55; 1951, 167: 76
- temperature regulation, 1940, 128: 739; 1941, 134: 350; 1941, 134: 598; 1948, 153: 10; 1950, 162: 301
- tetany, 1938, 124: 192
- tetrathionate poisoning, 1946, 147: 125
- thermal gradients in vascular system, 1950, 161: 316
- thiamin, 1939, 126: 291; 1941, 134: 121
- thirst and water intake, 1938, 122: 668; 1939, 125: 75; 1939, 125: 87; 1948, 153: 27; 1949, 159: 535; 1950, 161: 75; 1950, 161: 374; 1950, 162: 326; 1950, 162: 338; 1951, 164: 415
- thrombopenia, 1946, 145: 273
- thyroid, 1941, 132: 629; 1942, 136: 768; 1943, 138: 370; 1944, 141: 189; 1949, 157: 216
- time-concentration curves of injected substances in arterial blood, 1947, 148: 35
- total stomach pouch, 1951, 164: 558
- toxicity of D-L substance, 1950, 161: 564
- toxicity of sea water, 1950, 163: 370
- d-tubocurarine and tissue oxidation, 1947, 148: 510
- urease, 1951, 165: 695
- urine flow, 1940, 129: 533; 1943, 139: 713; 1946, 147: 616; 1947, 151: 554; 1950, 163: 159
- urogastrone, 1941, 134: 623; 1942, 137: 419; 1947, 150: 373
- uterine response to stimulation, 1942, 137: 457
- utilization of nitrogen, 1948, 152: 286
- vagus, 1938, 121: 270; 1939, 128: 247; 1940, 129: 766; 1941, 131: 674; 1941, 132: 571; 1941, 133: 634; 1947, 149: 24; 1951, 166: 255; 1951, 166: 470
- variations in fluid cell volume, 1944, 142: 435
- vascular reactivity, 1949, 156: 405; 1949, 156: 412
- vasoconstriction and shock, 1943, 139: 386; 1948, 153: 511; 1950, 161: 116
- vasomotor action, 1940, 130: 63
- vasomotor center excitability, 1940, 130: 256
- vasotropic substances, 1947, 150: 248
- veratramine, 1951, 167: 714
- vitamin A, 1938, 124: 168; 1939, 125: 786; 1943, 140: 242
- vitamin B of whole blood, 1950, 163: 79
- vitamin B complex, 1944, 141: 176
- vitamin B₆ and factor W, 1939, 128: 102
- vitamin D, 1939, 127: 552; 1942, 137: 172; 1947, 149: 334
- water moccasin venom, 1941, 134: 202
- whole-body x-irradiation, 1951, 164: 450
- ### DOGFISH
- adrenaline, acetylcholine and auricle of, 1943, 139: 45
- plasma prothrombin level, 1939, 125: 297
- various substances and heart rate, 1940, 129: 294
- DOHAN, F. C. and LUKENS, F. D. W. Persistent diabetes after pituitary extract, 1939, 125: 188
- LUKENS, F. D. W. Thyroidectomy and pancreatic diabetes, 1938, 122: 367
- See SUNDERMAN, F. W.
- DOLE, V. P. Back-diffusion of urea in the mammalian kidney, 1943, 139: 504
- , EMERSON, K., JR., PHILLIPS, R. A., HAMILTON, P. B. and VAN SLYKE, D. D. Renal extraction of oxygen in shock, 1946, 145: 337
- See PHILLIPS, R. A.
- DOLE, V. P., JR. and MORISON, R. S. Reflex activation of dorsal root dilators, 1940, 130: 304
- ### DOLPHIN
- kidney, as source of renin, 1942, 136: 733
- DOLPHIN, J.: see KOCHAKIAN, C. D.
- DOMINGUEZ, R. and POMERENE, ELIZABETH. Disappearance of galactose from plasma after injection, 1944, 141: 368
- DOMM, L. V.: see TABER, ELSIE
- DOMMERS, P.: see NECHELES, H.
- DONALD, W. D.: see HAHN, P. F.
- DONALDSON, L. R. Pancreatic tissue of experimentally fed salmon, 1943, 138: 560
- See NORRIS, E. R.
- DONELSON, EVA G., LEICHSENRING, JANE M. and OHLSON, MARGARET A. Variability in blood picture of women, 1943, 138: 626
- LEICHSENRING, JANE M. and WALL, LUCILLE M. Diameter of red blood cells in women, 1940, 128: 382
- See LEICHSENRING, JANE M.
- See OHLSON, MARGARET A.

- See PITTMAN, MARTHA S.
- See YOUNG, CHARLOTTE M.
- DONHOFFER, S. and VONOTZKY, J. Environmental temperature and food selection, 1947, 150: 329
- VONOTZKY, J. Thyroxine and food selection, 1947, 150: 334
- DONKEY
 - water balance, 1938, 123: 377
- DONNELLY, J. L. Metabolism of fat and carbohydrate, 1938, 124: 126
- Metabolism of glucose, 1938, 123: 448
- DONOVAN, P. B.: *see* DRAGSTEDT, L. R.
- *See* GOODPASTURE, W. C.
- DONOVAN, T. J.: *see* ZIMMERMANN, B.
- DOPA
 - adrenaline oxidation by tyrosinase, 1942, 136: 67
 - decarboxylation, 1941, 132: 497
 - production of hypertension, 1945, 143: 122
- DORFMAN, A.: *see* ELSTER, S. K.
- DORFMAN, R. I.: *see* SHIPLEY, R. A.
- DOROUGH, M. E.: *see* DRURY, D. R.
- DORRANCE, S. S., THORN, G. W., CLINTON, M., JR., EDMONDS, H. W. and FARBER, S. Anoxia and effect of cobalt on work performance, 1943, 139: 399
- DORST, S.: *see* SCHEER, B. T.
- DORVL
 - failure to potentiate acetylcholine effect, 1940, 130: 349
 - water balance, 1948, 155: 312
- DOSNE, C. Anti-uremic effect of desoxycorticosterone, 1941, 134: 71
- *See* HOUSSAY, B. A.
- *See* SELYE, H.
- DOSTER-VIRTUE, MILDRED E.: *see* VIRTUE, R. W.
- DOTTER, C. T. and LUKAS, D. S. Pulmonary arterial occlusion, 1951, 164: 254
- DOTTI, L. B. and KLEINER, I. S. Absence of rennin from adult human gastric juice, 1943, 138: 557
- DOTY, J. R.: *see* HALL, W. K.
- DOTY, R. W. Stimulus pattern and reflex deglutition 1951, 166: 142
- GERARD, R. W. Nerve conduction and O₂ consumption, 1950, 162: 458
- DOUBILET, H. and IVY, A. C. Gall bladder reaction to cholecystokinin, 1938, 124: 379
- *See* SHAFIROFF, B. G. P.
- DOUBLET THEORY
 - of cardiac action current, 1940, 128: 549
- DOUGHERTY, ISABEL: *see* RANDALL, W. C.
- DOUPE, J.: *see* BAZETT, H. C.
- DOVE
 - racial factor in bioassay, 1939, 125: 726
- DOW, J. W.: *see* LEVINE, H. D.
- DOW, P. Analysis of peripheral pulse in aortic stenosis, 1940, 131: 432
- Venous return as factor in vital capacity, 1939, 127: 793
- HAMILTON, W. F. Emptying of segments of arterial reservoir, 1939, 127: 785
- HAMILTON, W. F. Velocity of aortic pulse wave, 1939, 125: 60
- PICKERING, R. W. Ethanol precipitation of dyed plasma, 1950, 161: 212
- , HAHN, P. F. and HAMILTON, W. F. Flow of dye and cells through heart and lungs, 1946, 147: 493
- *See* HAMILTON, W. F.
- *See* HAMILTON, W. F., JR.
- *See* PICKERING, R. W.
- *See* REMINGTON, J. W.
- DOW, R. B., MATTHEWS, J. E., JR. and THORP, W. T. S. Activity of insulin after exposure to high pressure, 1940, 131: 382
- DOW, R. S. Labyrinthectomy in monkey, baboon and chimpanzee, 1938, 121: 392
- DOWLING, C. V.: *see* ECKSTEIN, R. W.
- DOWNING, V.: *see* ARIEL, I.
- DRABKIN, D. L.: *see* ROSENTHAL, O.
- DRAGSTEDT, L. R., ALLEN, J. G., JULIAN, O. C. and STINGER, DOROTHY. Lipocaic and ketonemia in pancreatic diabetes, 1941, 135: 133
- , DONOVAN, P. B., CLARK, D. E., GOODPASTURE, W. C. and VERMEULEN, C. Relation of lipocaic to blood and liver lipids, 1939, 127: 755
- , WOODWARD, E. R., OBERHELMAN, H. A., JR., STORER, E. H. and SMITH, C. A. Transplantation of antrum and gastric secretion, 1951, 165: 386
- *See* ALLEN, J. G.
- *See* CLARK, D. E.
- *See* EILERT, MARY LOU
- *See* GOODPASTURE, W. C.
- *See* JULIAN, O. C.
- *See* OBERHELMAN, H. A., JR.
- *See* VERMEULEN, C.
- *See* WOODWARD, E. R.
- DRAPER, W. B.: *see* GOLDENSOHN, E. S.
- DRAWE, CATHERINE E.: *see* ASHMAN, R.
- DRECHSLER, KATHERINE: *see* MONKHOUSE, F. C.
- *See* WEBER, G.
- DREISBACH, R.: *see* PFEIFFER, C.
- DRESDALE, D.: *see* COURNAND, A.
- *See* MOTLEY, H. L.
- DREW, C. R.: *see* SCUDDER, J.
- DREYFUSS, F.: *see* WÉGRIA, R.
- DRILL, V. A. Vitamin B and food intake in hyperthyroidism, 1941, 132: 629
- Vitamin B₁ of rat tissues after thyroid feeding, 1938, 122: 486
- HAYS, H. W. Liver function and dietary yeast in hyperthyroidism, 1942, 136: 762
- OVERMAN, R. Experimental hyperthyroidism and vitamin requirements, 1942, 135: 474
- SHERWOOD, CATHERINE R. Effect of vitamin B in hyperthyroid rats, 1938, 124: 683
- , SHAFFER, C. B. and OVERMAN, R. Liver function and hyperthyroidism, 1943, 138: 370
- *See* KLEINBERG, W.
- *See* LEATHEM, J. H.
- *See* PARKINS, W. M.
- *See* REMINGTON, J. W.

- DRILL, V. A. *See* SWINGLE, W. W.
- DRINKER, C. K. and HARDENBERGH, ESTHER. Effects of ANTU on the lungs, 1949, 156: 35
- , WARREN, MADELEINE F., MAUERR, F. W. and MCCARRELL, JANE D. Flow, pressure and composition of cardiac lymph, 1940, 130: 43
- *See* MAURER, F. W.
- *See* MCCARRELL, JANE D.
- *See* MUUS, J.
- *See* WARREN, MADELEINE F.
- DRIPPS, R. D. and COMROE, J. H., JR. Respiratory and circulatory responses to oxygen, 1947, 149: 277
- COMROE, J. H., JR. Response to higher concentrations of CO₂, 1947, 149: 43
- *See* COMROE, J. H., JR.
- *See* SCHMIDT, C. F.
- DRIVER, W. L. Hexyl-resorcinol, etc., and alimentary absorption, 1942, 135: 330
- MURLIN, J. R. Absorption of insulin from the alimentary tract, 1941, 132: 281
- *See* CARMICHAEL, E. B.
- *See* ECKENHOFF, J. E.
- *See* SEALOCK, R. R.
- DROSOPHILA
- sensitivity to oxygen poisoning, 1944, 140: 566
- DRURY, D. D.: *see* SVEDBERG, ANDREA
- DRURY, D. R. Insulin and carbohydrate metabolism, 1940, 131: 536
- GREELEY, P. O. Measurement of insulin action, 1939, 127: 581
- WICK, A. N. Insulin and distribution of glucose, 1951, 166: 159
- , ELASHER, J., GORDON, D. B. and DOROUGH, M. E. Renin substrate and renal hypertension, 1951, 164: 630
- WICK, A. N., BANCROFT, R. W. and MACKAY, E. M. Glucose utilization, 1951, 164: 207
- WICK, A. N. and MACKAY, E. M. Exercise and ketosis, 1941, 134: 761
- WICK, A. N. and MACKAY, E. M. Formation of glucose by kidney, 1950, 163: 655
- *See* BANCROFT, R. W.
- *See* BARNES, R. H.
- *See* BERGMAN, H.
- *See* FLASHER, J.
- *See* GREELEY, P. O.
- *See* MACKAY, E. M.
- *See* PAULS, FRANCES
- *See* WICK, A. N.
- DUBIN, W. M.: *see* BRANDT, W. L.
- DUCK
- alleviation of acceleratory force, 1946, 146: 39
- extreme cold, 1950, 161: 300
- normal and depancreatized, 1941, 135: 223
- oxygen transport in blood, 1946, 146: 223
- protein of pericardial fluid, 1940, 129: 637
- resistance to anoxia, 1945, 145: 191
- respiration, 1938, 121: 700
- response to heterologous renin, 1942, 136: 733
- thyroid gland and moulting, 1949, 158: 337
- DUCTUS ARTERIOSUS
- physiological reactions, 1942, 136: 140
- repair of patent, 1943, 139: 451
- DUKE'S BLEEDING TIME
- as compared with saline bleeding time, 1942, 136: 361
- DUMKE, P. R. and SCHMIDT, C. F.: Quantitative measurements of cerebral blood flow, 1943, 138: 421
- SCHMIDT, C. F. and CHIOLDI, H. P. Regulation of respiration via carotid body reflexes, 1941, 133: 1
- *See* SCHMIDT, C. F.
- *See* WATT, J. G.
- DUMM, MARY E.: *see* RALLI, ELAINE P.
- DUNBAR, P.: *see* GOETTSCH, E.
- DUNCAN, M. T.: *see* WELSH, C. A.
- DUNLOP, A. P.: *see* JAKES, L. B.
- DUNNING, MARCELLE F.: *see* BERGER, E. Y.
- *See* STEELE, J. M.
- DUODENUM
- acid stimulation, 1940, 128: 301
- chloride content, 1940, 129: 600
- cinchophen and secretion, 1950, 162: 110
- descending, activity during nausea, 1942, 136: 563
- excretion of the hormone necessary for carbohydrate metabolism, 1940, 129: 659
- fat ingestion and acidity, 1942, 136: 287
- hemorrhage and motility, 1946, 146: 450
- hydrochloric acid, 1942, 137: 154
- NaSCN, 1944, 141: 595
- reaction, and neutralizing ability of contents, 1942, 136: 370
- of contents, 1942, 136: 159
- secretion, food, 1949, 158: 122
- shock and constituents, 1947, 149: 372
- DUOMARCO, J. L., DILLON, W. H. and WIGGERS, C. J.
- Cardiac output, 1948, 154: 290
- *See* OPDYKE, D. F.
- DUPEE, C. and JOHNSON, V. Respiratory changes in pulmonary vascular capacity, 1943, 139: 95
- DURANT, T. M. and OPPENHEIMER, M. J. Epicardial negativity and zonal interference, 1950, 163: 129
- *See* OPPENHEIMER, M. J.
- DURLACHER, S. H. and DARROW, D. C. Body K and survival time after nephrectomy, 1942, 136: 577
- , DARROW, D. C. and WINTERNITZ, M. C.: Renal size after K-low diet and desoxycorticosterone, 1942, 136: 346
- DURY, A. Eosinophiles, adrenal cortex and blood sugar, 1950, 163: 96
- Leucocytes and relation of adrenal and spleen, 1950, 160: 75
- and BRADBURY, J. T. Copper-induced pseudo-pregnancy, 1942, 135: 587; 1943, 139: 105
- DUSCHATKO, A. M.: *see* WIGGERS, H. C.
- DUSSEY DE BARENNE, J. G. and McCULLOCH, W. S.
- Physiological delimitation of central neurones, 1939, 127: 620

- , MARSHALL, C. S., McCULLOCH, W. S. and NIMS, L. F. Electrical activity and pH of cerebral cortex, 1938, 124: 631
- , MARSHALL, C. S., NIMS, L. F. and STONE, W. E. Response of cerebral cortex to strychnine, 1941, 132: 776
- DUTOIT, C. H.: *see* PEARSON, O. H.
- DUVAL, ANNA M.: *see* LEWIS, R. C.
- DWORETZKY, M. and CODE, C. F. Passage of histamine across wall of bowel, 1951, 166: 462
- *See* BOQUET, P.
- *See* HALLENBECK, G. A.
- DWORKIN, R. M.: *see* GREEN, H. D.
- DWORKIN, S.: *see* SCHACHTER, M.
- DWYER, C. S.: *see* CANZANELLI, A.
- DYE, J. A. and CHIDSEY, JANE L. Ketone body-total carbohydrate ratios, 1939, 127: 745
- *See* COOK, ELLEN T.
- *See* MCCANDLESS, ESTHER L.
- DYES
- diazo, binding of by plasma proteins, 1943, 138: 708
- method of estimating cardiac output, 1948, 153: 309
- toluidine, combination with plasma albumin, 1950, 161: 473
- EADIE, G. S.: *see* BEAMER, C.
- *See* WOLF, R. L.
- EADS, H. J. *see* BOWEN, W. J.
- EAR
- apparatus for replacement of perilymph, 1939, 125: 690
- cochlear potentials, anoxia and, 1949, 159: 199
- chemicals and, 1939, 125: 688
- lesions and, 1942, 135: 351
- lesions in organ of Corti, 1942, 135: 352
- round-window response in hamster, 1950, 163: 213
- EARL, T. J.: *see* BOYD, E. M.
- EARLE, D. P., JR. and BERLINER, R. W. 2,3-Dimercaptopropanol and diuresis, 1947, 151: 215
- EASLER, CLARICE A.: *see* FULLER, J. L.
- EATON, A. G., FERGUSON, F. P. and BYER, FRANCES T. Renal reabsorption of valine, leucine and isoleucine, 1946, 145: 491
- *See* HALL, W. K.
- EATON, R. C.: *see* WINTER, C. A.
- EBAUGH, F. G., JR.: *see* WARREN, C. O.
- EBERT, R. V., STEAD, E. A., JR., WARREN, J. V. and WATTS, W. E. Plasma protein replacement after hemorrhage, 1942, 136: 299
- *See* STEAD, E. A., JR.
- ECHINOCOCCUS GRANULOSA
- toxicity of fluid from cysts, 1945, 143: 306
- ECK FISTULA: *see* FISTULA, ECK
- ECKEL, R.: *see* ECKSTEIN, R. W.
- ECKENHOFF, J. E., HAFKENSCHIEL, J. H., FOLTZ, E. L. and DRIVER, R. L. Cardiac work and efficiency, 1948, 152: 545
- , HAFKENSCHIEL, J. H., HARMEL, M. H., GOODALE, W. T., LUBIN, M., BING, R. J. and KETY, S. S. Measurement of coronary blood flow, 1948, 152: 356
- , HAFKENSCHIEL, J. H. and LANDMESSER, C. M. Coronary circulation in the dog, 1947, 148: 582
- , HAFKENSCHIEL, J. H., LANDMESSER, C. M. and HARMEL, M. H. Cardiac O₂ metabolism and coronary circulation, 1947, 149: 634
- *See* GOODALE, W. T.
- ECKMAN, M.: *see* BARACH, A. L.
- ECKSTEIN, R. W., BOOK, D. and GREGG, D. E. Blood viscosity in relation to blood flow, 1942, 135: 772
- , GRAHAM, G. R., LIEBOW, I. M. and WIGGERS, C. J. Changes in inferior cava flow after hemorrhage, 1947, 148: 745
- , GREGG, D. E. and PRITCHARD, W. H. Development of collateral circulation, 1941, 132: 351
- , LIEBOW, I. M. and WIGGERS, C. J. Blood flow and resistance in hemorrhagic shock, 1946, 147: 685
- , ROBERTS, J. T., GREGG, D. E. and WEARN, J. T. Role of Thebesian and luminal vessels of heart, 1941, 132: 648
- , STROUD, M., III, DOWLING, C. V. and PRITCHARD, W. H. Coronary flow, 1950, 162: 266
- , STROUD, M., III, ECKEL, R., DOWLING, C. V. and PRITCHARD, W. H. Coronary flow and nerve stimulation, 1950, 163: 539
- , WIGGERS, C. J. and GRAHAM, G. R. Inferior vena cava flow of intravascular origin, 1947, 148: 740
- *See* CHAMBLISS, J. R.
- *See* GREGG, D. E.
- ECURESIS
- dehydration by diuretics, discussion, 1947, 148: 66
- EDDS, M. V., JR.: *see* WEISS, P.
- EDELMANN, A. Adrenal shielding and x-irradiation, 1951, 165: 57
- Adrenalectomy and x-irradiation, 1951, 167: 345
- *See* WHITEHORN, W. V.
- EDEMA
- available O₂, 1938, 124: 360
- due to famine, plasma volume and thiocyanate space in, 1947, 150: 173
- due to potassium deficiency, 1945, 145: 292
- exposure to cold air and, 1950, 161: 87
- from tourniquet shock, in carotid sinus denervated dogs, 1945, 144: 497
- hair growth, 1940, 129: 557
- in heart-lung preparation, 1942, 136: 506
- lung vessel pressures in dog, 1950, 161: 336
- of lung, due to adrenaline and alarm reaction, 1938, 122: 347
- following vagotomy, 1948, 152: 585
- intracranial pressure and, 1948, 152: 589
- renal venous pressure, and sodium clearance, 1951, 166: 400
- role of particulate matter in perfusate fluid in control, 1940, 130: 516
- EDER, H. A.: *see* ROOF, BETTY S.

- EDERSTROM, H. E. and DE BOER, B. Age and hemo-concentrating responses, 1947, 148: 193
- EDISON, ANN O., SILBER, R. H. and TENNENT, D. M. Thiamine intake and growth in tropical environment, 1945, 144: 643
- EDMONDS, H. W.: *see* DORRANCE, S. S.
- EDSALL, G. Coagulant action of daboia venom, 1941, 134: 609
- EDWARDS, G. A.: *see* SCHOLANDER, P. F.
- EDWARDS, H. T., BROUHA, L. and JOHNSON, R. E. Blood lactate in normal and sympathectomized dogs, 1938, 124: 254
- *See* DILL, D. B.
- *See* MISSIURO, V.
- EDWARDS, W. S. Pulmonary vascular resistance, 1951, 167: 756
- EEG: *see* ELECTROENCEPHALOGRAM
- EEL
paralyzing effect of cutting tail, 1950, 160: 554
- EFFICIENCY
of O₂ consumption of left ventricle, 1947, 149: 644
- EFFORT INDEX
of heart, 1939, 126: 89
- EGAÑA, E., JOHNSON, R. E., BLOOMFIELD, R., BROUHA, L., MEIKLEJOHN, A. P., WHITTENBERGER, J. L., DARLING, R. C., HEATH, C. W., GRAYBIEL, A. and CONSOLAZIO, F. C. Vitamin B complex deficiency in sedentary men, 1942, 137: 731
- EGGS
boron content, 1939, 127: 693
phosphorus deposition, 1943, 138: 318
x-ray injury and O₂ consumption, 1938, 122: 406
yolk, cream and, gastric motility and, 1947, 148: 340
phosphorus deposition, 1943, 138: 320
- EHNI, G. J.: *see* CRANDALL, L. A., JR.
- EICHELBERGER, LILLIAN and ROMA, M. Spleen and electrolyte distribution, 1950, 160: 295
- and ROMA, M. Water and electrolyte distribution, 1949, 159: 57
- , BROWER, T. D. and ROMA, M. Hyaline cartilages, 1951, 166: 328
- , KOLLROS, J. J. and WALKER, A. E. Cerebral concussion and brain constituents, 1949, 156: 129
- *See* CHILDS, ALICE
- EICHER, M.: *see* BLUM, H. F.
- EICHNA, L. W., PARK, C. R., NELSON, N., HORVATH, S. M. and PALMES, E. D. Thermal regulation in desert environment, 1950, 163: 585
- *See* NELSON, N.
- EILER, J. J., ALTHAUSEN, T. L. and STOCKHOLM, MABEL. Thyroid hormone and absorption by renal tubules, 1944, 140: 699
- EILERT, MARY LOU and DRAGSTEDT, L. R. Lipotropic action of lipocaic, 1946, 147: 346
- *See* CLARK, D. E.
- EISEN, H. N. Histaminase activity of kidney and other organs, 1946, 146: 56
- EISENMAN, ANNA J.: *see* WINKLER, A. W.
- EJACULATION
nitrogen of semen, 1942, 136: 472
- ELAM, J. O.: *see* KRAMER, K.
- ELAM, W. N., JR.: *see* KRAMER, K.
- ELAND
blood sugar level, 1950, 162: 438
- ELASTIC HYSTERESIS
in tortoise ventricle, 1939, 125: 443
- ELBEL, E. R. and GREEN, E. L. Pulse reaction to step-up exercise, 1946, 145: 521
- and RONKIN, R. R. Palmar skin resistance and physical fitness, 1946, 147: 1
- ELECTRIC CURRENT
electronarcotic action, 1942, 137: 39
gastric secretion, 1945 144: 115
injury to heart muscle, 1947, 150: 574
production of shock by, 1948, 154: 38
- ELECTRICAL ENERGY
output of stomach, 1943, 139: 1; 1948, 154: 148
- ELECTROCARDIOGRAM
A-V pause in spread of activation, 1942, 138: 113
acid and, 1946, 146: 480
alkali and, 1947, 148: 7
anoxia, 1944, 142: 452
auricular fibrillation, 1950, 162: 222
calcium, 1948, 153: 406
calcium concentration of serum, 1939, 125: 167
Ca and K concentrations, 1942, 136: 334
cardiac idioventricular rhythm and fibrillation, 1942, 136: 324
conductivity of tissues in contact with heart, 1939, 125: 627
configuration of epicardial and endocardial extrasystoles, 1946, 145: 615
cooling, 1948, 155: 360
coronary ligation and ST-segment, 1948, 153: 542; 1948, 153: 549
coronary occlusion, 1950, 160: 366
digitalis, 1951, 167: 726
direction of T wave, 1941, 131: 700
displacement of cardiac pacemaker, 1949, 156: 19
of RS-T segment, 1941, 131: 693
distribution of potentials on heart surface, 1943, 138: 644
doublet theory of cardiac action current, 1940, 128: 547
during anoxic anoxia, 1947, 150: 498
electrical systole, 1951, 166: 584
endo- and epicardial extrasystoles, 1943, 140: 150
formation of R complexes, 1941, 134: 385
G forces, 1947, 150: 12
genetic variability in heart period, 1951, 166: 20
heart injuries, 1940, 130: 130
current, in, 1943, 139: 202
genesis of currents, 1940, 130: 130
hypothermia, 1950, 161: 462
initiation of fibrillation, 1941, 134: 473
of impulses, 1943, 138: 273
intracasternal potassium phosphate, 1945, 145: 228
intravenous CaCl₂, 1939, 125: 162
isolated frog heart and, 1940, 130: 735

- lead VF, 1948, 153: 547
 lead VL, 1948, 153: 540
 lead VR, 1948, 153: 529
 leads I and II, 1941, 134: 391
 left and right ventricles, 1941, 131: 687; 1941, 134: 388
 localization of myocardial infarcts, 1945, 143: 723
 measurement of acetylcholine circulation time, 1947, 150: 506
 myocardial infarcts, 1945, 143: 723
 nature of precordial, 1948, 155: 215
 nature of QI and QIII, 1942, 135: 752
 nature of 'unipolar' extremity leads, 1948, 153: 529; 1948, 153: 540; 1948, 153: 547; 1948, 154: 369
 of chicken heart, 1948, 154: 251
 of hamster during arousal, 1950, 163: 572
 of injured heart muscle, 1942, 137: 440
 of seal heart during diving, 1942, 135: 560
 of sturgeon's heart, 1950, 160: 552
 of turtle heart, coordinating function, 1941, 132: 725
 of turtle heart strip, 1948, 154: 241
 of turtle ventricle, 1940, 128: 390
 of turtle, dog, cat, and monkey ventricles, 1941, 134: 319
 origin of waves in, 1949, 159: 476; 1950, 163: 129
 posthemorrhagic hypotension and, 1943, 140: 330
 potassium balance, 1950, 161: 290
 potassium deficiency, 1950, 162: 538
 potassium effect during tourniquet shock, 1945, 144: 501
 potassium poisoning and, 1943, 139: 668; 1943, 139: 686
 Q-T interval and other cardiac events, 1941, 132: 163
 rewarming from hypothermia, 1951, 167: 71
 S complex, 1942, 136: 727
 septal extrasystoles in, 1941, 134: 399
 serum magnesium, 1939, 126: 724
 serum potassium, 1938, 124: 478
 spread of excitation in heart, 1949, 157: 248
 T wave, deflection of, 1945, 143: 455
 temperature, 1948, 153: 176; 1949, 156: 285
 T-wave, 1947, 149: 272; 1948, 153: 534; 1948, 153: 544; 1948, 153: 549
 temperature changes in epicardial surface, 1949, 159: 495
 thiamin deficiency, 1945, 144: 410
 thyroid status, 1948, 152: 100
 vagus, 1951, 167: 441
 ventricular electrogram, 1943, 139: 464
 ventricular temperature changes, 1947, 149: 266
 vitamin E deficiency, 1946, 147: 477
- ELECTROCORTICOGRAM**
 adrenal function, 1951, 164: 16
 basal forebrain, 1943, 139: 410
 correlation with muscular activity, 1942, 135: 731
 electrical activity of sensorimotor cortex, 1938, 121: 21
 propagation of cortical potentials, 1941, 131: 744
 prostigmine and acetylcholine, 1942, 135: 634
- ELECTROENCEPHALOGRAPH**
 acoustic stimuli, 1941, 132: 234
 adrenal function, 1951, 164: 16
 after DDT administration, 1946, 147: 127
 agene-induced epilepsy, 1948, 154: 440
 anoxia, 1942, 137: 703; 1943, 140: 293
 basal forebrain, 1943, 139: 410
 cerebral anemia with analeptics, 1941, 132: 232
 correlation with muscular activity, 1942, 135: 731
 electrical activity and pH, 1938, 124: 632
 experimental insomnia, 1947, 149: 185
 focal cerebral, recording, 1940, 128: 489
 G forces, 1946, 146: 44; 1947, 150: 20
 gravity shock, 1951, 165: 543
 hyperventilation, 1943, 139: 335
 and heart rate, 1944, 140: 584
 hypoglycemia, 1939, 125: 551; 1939, 125: 578; 1942, 136: 4
 increased temperature, 1949, 159: 1
 interpretation, 1942, 135: 727; 1947, 149: 538
 of cerebral cortex, treated with acetylcholine, activated by metrazol, 1950, 161: 426
 olfactory cortical potentials, 1943, 139: 553
 prostigmine and acetylcholine and, 1942, 135: 634
 strychnine, 1939, 125: 182; 1941, 132: 776
 water intoxication, 1946, 146: 559
- ELECTROKYMOGRAPH**
 direct Fick measurements of cardiac output, 1950, 161: 231
 measurement of heart output, 1949, 157: 343; 1950, 161: 231; 1950, 161: 236
 positional changes of heart, 1950, 163: 475
- ELECTROLYTES**
 adrenalectomy, 1938, 122: 446
 balance, nitrogen mustard, 1948, 155: 295
 temperature change and, 1945, 143: 379
 cardiac output and excretion, 1951, 165: 278
 changes during stimulation, 1941, 135: 167
 in brain cortex in convulsions, 1947, 150: 31
 distribution between blood fluids and muscle in pregnancy, 1942, 137: 384
 in blood and plasma, 1949, 159: 57
 in experimental diabetes, 1941, 132: 421
 exchange between blood and muscle, 1940, 128: 638
 excretion, human albumin and, 1951, 164: 167
 in experimental adrenal insufficiency, 1939, 125: 634
 spanchnicotomy and, 1951, 166: 644
 urea diuresis and, 1949, 158: 218
 extracellular, depletion and water intake, 1951, 164: 415
 imbalance after adrenalectomy, 1939, 127: 51
 injection of hypertonic solutions and metabolism, 1949, 159: 162
 injury, and anoxia, 1941, 132: 770
 metabolism, hypothalamic lesions and, 1950, 161: 35
 of blood, cardiac glycosides and, 1942, 137: 8
 of brain, concussion and, 1949, 156: 129
 of brain and plasma, relation to electroshock seizure threshold, 1949, 156: 322
 of heart-lung preparation, 1942, 136: 518

See page iii for guide to use of index

ELECTROLYTES

- of muscle after thiopental, 1951, 167: 298
- following ischemia, 1951, 167: 289, 1951, 167: 305
- stimulation and, 1938, 121: 595
- of plasma, whole-body x-irradiation and, 1951, 164: 454
- palmar skin resistance, 1944, 142: 78
- pattern in serum as a result of exercise, 1938, 122: 110
- pitressin, 1939, 127: 64
- uptake of water by frogs, 1938, 122: 197

ELECTROLYTIC RESISTANCE

- of blood clot, 1949, 158: 367; 1949, 158: 379

ELECTROMYOGRAM

- interference in EEG, 1947, 149: 538
- of intercostal muscles, 1940, 128: 617
- of stimulated muscles after deafferentation, 1949, 156: 311
- of striated muscle, 1941, 133: 724
- of various muscles, 1942, 136: 625
- of wrist muscle activity, 1947, 150: 599
- relation to mechanogram, 1942, 137: 268

ELECTRONARCOSIS

- brain metabolism during, 1943, 139: 171
- electric currents and electronarcotic action, 1942, 137: 39

ELECTRONEUROGRAM

- normal and degenerated vagus, 1950, 162: 546

ELECTROPHORESIS

- fractionation, of plasma proteins, 1946, 146: 674
- of antigenadotrophic and progonadotrophic substances in serum, 1950, 162: 393
- or proteins, of canine gastric juice, 1951, 165: 1
- of pancreatic juice, 1945, 145: 140
- protein of plasma determined by, 1946, 146: 674
- technic, for studying plasma protein, 1950, 161: 101

ELECTRORETINOGRAM

- optic tract potential and, 1950, 161: 580

ELECTROSHOCK

- body temperature, recovery, 1948, 154: 208
- brain and plasma cations and response to, 1949, 157: 236
- seizure and brain electrolytes, 1949, 156: 163
- threshold, brain and plasma electrolytes, 1949, 156: 322
- DCA, ACTH and, 1950, 160: 219
- tissue impedance in, 1949, 156: 317

ELECTROTONIC POTENTIALS

- by threshold stimuli from sheath-free nerves, 1950, 163: 229

ELFTMAN, H. Forces and energy changes in leg during walking, 1939, 125: 339

— Function of muscles in locomotion, 1939, 125: 357

— Work done by muscles in running, 1940, 129: 672

ELI LILLY—02074: *see* 1-PHENYL-2N-METHYL-BENZYLAMINOETHANOL HCL

ELI LILLY—04679: *see* ETHYL-2-CHLOROETHYL-2-ORTHO-BENZYLPHEN-OXYETHYLAMINE HCL

ELI LILLY—08124: *see* 3(N-METHYL-N-2-CHLORO-ETHYL)-AMINOMETHYL THIANAPHTHENE HCL

ELI LILLY—08125: *see* 3-(N-ETHYL-N-2-CHLORO-ETHYL) AMINOETHYL THIANAPHTHENE HCL

ELI LILLY—08353: *see* 1-PHENYL-2N-METHYL-BENZYL-AMINOETHYL-CHLORIDE HCL

ELKINS, E. C.: *see* WAKIM, K. G.

ELKINTON, J. R. and TAFFEL, M. Distribution of intravenous sulfocyanate, 1942, 138: 126

— *See* DANOWSKI, T. S.

— *See* WINKLER, A. W.

ELLIOTT, H. W. and CRISMON, J. M. Hypothermia and sensitivity to K, 1947, 151: 366

— and NORRIS, E. R. Arsenite and respiration of rat tissues, 1945, 143: 639

— *See* CRISMON, J. M.

— *See* NORRIS, E. R.

— *See* RALSTON, H. J.

ELLIOTT, K. A. C. and HENDERSON, NORA. Acetylcholine in rat brain, 1951, 165: 365

— and JASPER, H. Measurement of brain swelling and shrinkage, 1949, 157: 122

—, SWANK, R. L. and HENDERSON, NORA. Drugs and brain acetylcholine, 1950, 162: 469

— *See* MCLENNAN, H.

ELLIOTT, MARGARET C.: *See* HELLEBRANDT, FRANCES

ELLIOTT, R. V.: *see* BLOOD, F. R.

ELLIS, D.: *see* RING, G. C.

ELLIS, F. A., GRANT, R. and HALL, V. E. Fever and response to CO₂, 1949, 158: 16

ELLISON, E. T.: *see* DIAZ, J. T.

ELLIS, G. H.: *see* SMITH, S. E.

ELMAN, R. Hypoproteinemia following severe hemorrhage, 1940, 128: 332

—, LISCHER, C. E. and DAVEY, HARRIET W. Blood changes in hemorrhagic shock, 1944, 140: 737

—, LISCHER, C. E. and DAVEY, HARRIET W. Plasma proteins and red cell volume after hemorrhage, 1943, 138: 569

— *See* LISCHER, C. E.

ELSBERG, C. A. and SPOTNITZ, H. Retino-cerebral function, 1938, 121: 454

ELSTER, S. K. and SCHACK, J. A. Vitamin C deficiency and diffusion of T-1824, 1950, 161: 283

—, FREEMAN, M. E. and DORFMAN, A. Hyaluronidase and capillaries, 1949, 156: 429

ELVEHJEM, C. A.: *see* ANDERSON, H. D.

— *See* ARNOLD, A.

— *See* AXELROD, A. E.

— *See* FROST, D. V.

— *See* HOVE, E.

— *See* MCKIBBIN, J. M.

— *See* MAASS, A. R.

— *See* NEWELL, G. W.

— *See* RIESEN, W. H.

— *See* RUEGAMER, W. R.

— *See* SCHWEIGERT, B. S.

— *See* TEPLY, L. J.

— *See* TERESI, J. D.

— *See* WACHTEL, L. W.

ELWELL, L. H.: *see* BEAN, J. W.

ELY, C. A.: *see* DEUTSCH, H. F.

EMBRYO

- heart, physiology of before circulation, 1942, 137: 146
- maintenance in ovariectomized rabbits, 1938, 124: 484
- metabolism of histamine in, 1946, 147: 462

EMERSON, C. P.: *see* FREIS, E. D.

EMERSON, G. A.: *see* VAN LIERE, E. J.

EMERSON, K., JR.: *see* DOLE, V. P.

— *See* PHILLIPS, R. A.

EMERY, F. E. Statistical analysis of the knee-jerk, 1944, 141: 64

— and LAWTON, A. H. Relaxation of pelvic ligaments, 1947, 151: 134

— *See* GRIFFITH, F. R., JR.

— *See* YOUNG, W. C.

EMESIS

- afferent pathways from gastrointestinal tract, 1951, 164: 520
- after vagotomy, 1947, 149: 429

EMMETT, A. D.: *see* CAMPBELL, C. J.

EMOTION

- activity of the sloth, 1939, 127: 129
- blood sugar, and body temperature, 1939, 125: 731
- brain metabolism during excitement due to, 1948, 154: 73
- control of ciliary muscle, 1939, 127: 602
- heart rate, 1943, 138: 468
- hypothermia, 1950, 160: 285
- irreversible effect on blood pressure, 1945, 144: 331
- vago-insulin system, 1941, 133: 532

ENCEPHALIN

- sympathomimetic substance in brain tissue, 1948, 152: 324

ENCEPHALOGRAPHY

- in man, 1939, 125: 498

ENDICOTT, K. M.: *see* KORNBERG, A.

ENDONEURAL SPACES

- convection of fluid in, 1945, 143: 521

ENDURANCE

- physical, during various B vitamin restrictions, 1946, 147: 40

- previous training and, 1946, 146: 424

ENELOW, A. J.: *see* REHM, W. S.

ENERGETICS

- of surviving mammalian heart, 1941, 134: 636

ENERGY

- balance, clothing in extreme cold and, 1947, 149: 223
- expenditure, in exercise in extreme cold, 1947, 150: 105

- in swimming, 1944, 142: 142

- in walking at various speeds and grades, 1947, 151: 405

- of grade and horizontal walking, 1946, 145: 391
- required to maintain posture, 1940, 129: 773

ENERGY METABOLISM

- at various air temperatures, 1946, 146: 515

- growth hormone, 1939, 125: 754

- in extreme cold, 1947, 149: 209

- ingestion of food, 1942, 135: 743

- on yellow corn diet, vitamin D and, 1943, 139: 693

- water balance at various temperatures, 1948, 152: 233

ENERGY TRANSFER (MECHANICAL)

- in leg during walking, 1939, 125: 347

- in muscles in locomotion, 1939, 125: 357

ENGEL, F. L. and ENGEL, MILDRED G. Urea synthesis during hemorrhagic shock, 1946, 147: 165

— *See* DARROW, D. C.

— *See* WILHELM, A. E.

ENGEL, G. L.: *see* FERRIS, E. B.

ENGEL, MILDRED G.: *see* ENGEL, F. L.

— *See* WILHELM, A. E.

ENKEEVA, S. I. Epinephrine bradycardia and shock in young animals, 1945, 143: 134

ENSOR, C. R. Electrocardiogram of rats on vitamin E deficiency, 1946, 147: 477

— *See* BACHMANN, G.

— *See* HALDI, J.

— *See* SHULER, R. H.

ENTENMAN, C., MONTGOMERY, M. L. and CHAIKOFF, I. L. Lipocic and fatty liver after depancreatization, 1944, 141: 221

— *See* MONTGOMERY, M. L.

— *See* RANNEY, R. E.

ENTEROCRININ

- distribution of, 1938, 121: 481

- excitation of small intestine, 1938, 121: 481

- fractionation of, 1943, 139: 633

- intestinal secretion, 1939, 128: 72

- method of assay of, 1943, 139: 626

- pH, chloride and CO₂ of succus entericus, 1939, 128: 77

- physiological response to, 1943, 139: 626

- purification of, 1951, 167: 159

ENTEROGASTRONE

- anti-ulcer activity, 1947, 150: 756

- gastric motility, 1947, 148: 340

- identity with urogastrone, 1941, 134: 628

- pepsin secretion, 1944, 141: 283

- ulcers in rat and, 1947, 148: 384

ENVIRONMENT

- humidity, *see* HUMIDITY

- osmotic, and water balance of frogs, 1949, 157: 412
- physical properties and heat regulation, 1940, 131: 79; 1940, 131: 93

- temperature, *see* TEMPERATURE (ENVIRONMENTAL)

ENZYMES

- destruction by high oxygen, 1938, 124: 580; 1940, 130: 449; 1945, 143: 662

- mucolytic systems, 1951, 166: 555

EOSINOPHILES

- adrenal cortex and, 1950, 160: 80

- adrenals and spleen, 1950, 160: 77

- blood sugar levels, and surgical conditions, 1950, 163: 96

- epinephrine, caloric restriction, 1951, 166: 531

- nephrectomy, 1951, 167: 464

- sodium chloride deficiency, 1951, 166: 525

EPHEDRINE

- accumulation of adrenaline at nerve endings and, 1939, 127: 739

See page iii for guide to use of index

EPHEDRINE

- activity of adenosinetriphosphatase, 1948, 152: 90
- adrenaline oxidation by tyrosinase, 1942, 136: 67
- beating turtle ventricle, 1943, 138: 760
- blood pressure, 1939, 128: 133
- blood sugar, and gasp reflex of isolated head, 1946, 146: 243
- cardiac systole and cycle relations, 1948, 154: 10
- denervated blood vessels 1943, 139: 426
- experimental polycythemia, 1941, 134: 219
- failure to produce polycythemia, 1951, 167: 59
- heart rate, 1944, 142: 694
- intestinal motility, 1944, 141: 463
- muscle tone of decerebrate dog, 1942, 137: 252
- nerve-free smooth muscle of chick amnion, 1940, 131: 531
- papillary electrograms, 1949, 156: 31
- production of polycythemia with, 1941, 134: 219
- respiratory tract fluid, 1943, 138: 566
- stroke volume of heart, 1948, 153: 292
- survival time of decapitated head, 1944, 142: 154
- survival to explosive decompression, 1950, 163: 401
- urine secretion in chicken, 1940, 128: 595
- values for Young's modulus, 1939, 125: 7
- vertical-tube curves of rabbit ear blood vessels, 1951, 164: 337

EPICATECHIN: see VITAMIN P FLAVONOIDS**EPIDIDYMUS**

- enzymatic conversion of cyanide to thiocyanate, 1948, 153: 351
- hyperthyroidism, 1947, 150: 95

EPILEPSY

- acetylcholine and, 1950, 161: 430
- acute water intoxication in rats and, 1946, 146: 564
- agene-induced canine, 1948, 154: 439
- cortical responses to stimuli and, 1942, 135: 736

EPINEPHRINE

- acetylcholine in pupillary regulation and, 1941, 133: 106
- acetylcholine sensitivity of muscle, 1946, 145: 420
- action potential of smooth muscle, 1946, 146: 497
 - of squid eye, 1940, 130: 245
 - of stomach, 1945, 144: 696
- activity of alloxan, 1948, 152: 609
- activity of sloth, 1939, 127: 129
- adrenal cortex, 1950, 160: 491
- adrenalectomized animal, 1942, 137: 374
- adrenalectomized dogs, 1950, 161: 22
- amino acid nitrogen in blood, 1940, 130: 171
- analgesia and anesthesia induced by, 1949, 157: 116
- anoxia and action of, 1951, 164: 567
- aortic, portal, and inferior vena caval pressures, 1946, 146: 199
- arterial pressure, 1950, 160: 422
 - in cross-circulation experiments, 1949, 159: 443
- arterial pressure response to valsalva test, 1948, 154: 323
- augmentation of thyrotropic hormone activity by, 1940, 129: 724
- autonomic nervous system, 1939, 127: 243
- ballistocardiograph, 1941, 134: 419
- basal metabolic rate, 1940, 129: 728

- beating turtle ventricle, 1943, 138: 760; 1945, 145: 148
- bleeding disease in swine, 1943, 139: 121
- blood amino acids, 1940, 128: 777
- blood flow in an extremity, 1938, 123: 543
 - in bronchial artery, 1947, 148: 661
 - in isolated ear, 1950, 162: 280
 - in liver, 1941, 132: 713
 - in spleen, 1939, 127: 117
- blood glutathione, 1951, 165: 575
- blood lactate, 1938, 123: 434; 1938, 124: 256; 1939, 127: 415
- blood potassium, 1938, 121: 326; 1939, 126: 710; 1940, 130: 565
- blood sugar, and anoxia, 1940, 129: 613; 1947, 150: 323
 - in hypophysectomy, 1946, 146: 386
- bradycardia and shock produced by, 1945, 143: 135
- calorigenic action, 1940, 128: 284; 1942, 137: 584; 1943, 138: 671; 1949, 156: 114
- carbohydrate metabolism, 1949, 157: 52; 1949, 157: 205
 - during work, 1940, 130: 602
 - in anoxia, 1944, 140: 478
- CO₂ output, and R.Q., 1940, 130: 197
- cardiac glycogen of dog, 1938, 124: 745
- cardiac muscle changes following, 1951, 166: 277
- cardiac output, 1949, 157: 353
- cardiac systole and cycle relations, 1948, 154: 12
- cardioacceleration, 1950, 163: 484
- cardiospasm, 1945, 143: 165
- cardiovascular sensitivity to potassium, 1947, 149: 594
- carotid occlusion, and arterial pressure, 1950, 162: 556
- central hyperglycemic action of, 1947, 150: 589
- cerebral blood flow, 1943, 138: 426
- circulating red cell volume, 1948, 155: 239
- circulatory collapse in shock due to, 1938, 123: 668
- circulatory response, 1942, 136: 89
- clotting time, 1945, 144: 453
- comparison with acetylcholine, 1938, 121: 149
- congestive heart failure following, 1948, 155: 336
- conjugation, deamination, and excretion, 1945, 144: 321
- constant infusion of, 1951, 165: 319
- contractile force of heart muscle, 1950, 161: 503
- contraction of denervated facial muscles, 1938, 121: 614
- corneal mitosis, 1944, 141: 691
- coronary blood flow, 1947, 148: 589
- cyanide and action of, 1943, 140: 369
- defatiguing effect, 1939, 125: 196
- denervated blood vessels, 1943, 139: 425
- denervated iris, 1940, 130: 269; 1942, 135: 535
- denervated muscles, 1949, 158: 141
- denervated nictitating membrane, 1949, 156: 281
- development of tolerance to, 1950, 162: 235
- effect in rabbit, 1951, 164: 400
- effect of large doses, 1950, 162: 230
- elasmobranch auricle, 1943, 139: 46
- electrical potential of gastric mucosa, 1947, 149: 85

- eosinophiles and blood sugar, 1950, 163: 97
 equivalent of adrenergic fiber extract, 1939, 125: 779
 factors involved in paroxysmal ventricular tachycardia, 1948, 153: 553
 fetal heart, 1942, 137: 482
 flow and pattern in peripheral arteries, 1943, 138: 732
 fluorimetric determination, in plasma, 1951, 166: 304
 fluorimetric studies, 1950, 161: 268
 focal activities of blood pressure, 1940, 128: 490
 frog renal hemodynamics, 1943, 140: 221
 glucose tolerance, 1949, 156: 361; 1949, 159: 360
 hemodynamic, renal function and, 1951, 166: 652
 hemorrhage, 1950, 161: 119
 hydrolysis of choline esters, 1949, 158: 327
 hyperglycemic response, 1939, 126: 302; 1942, 137: 124; 1944, 142: 640
 hyperthyroid heart, 1947, 148: 692
 hypothalamus in regulation of heart rate and, 1941, 132: 5
 in vitro destruction, and 933F, 1938, 123: 404
 index of auriculo-ventricular conductivity, 1939, 127: 276
 infusion, and heart volume, 1950, 161: 470
 inhibition of pseudopregnancy, 1950, 161: 524
 injection, and plasma volume, 1939, 125: 717
 insulin resistance in intoxication, 1938, 122: 627
 interaction with thyroxin, 1950, 161: 550
 intestinal motility and, 1938, 123: 424; 1939, 126: 241; 1949, 159: 457; 1951, 165: 378
 intoxication and adrenalectomy, 1939, 126: 7
 intra-arterial injection of, and blood flow, 1947, 150: 183
 systemic effect of, 1946, 146: 679
 intraosseous injections of, 1943, 138: 269
 intravenous minimum lethal dose, 1950, 162: 230
 lachrymal secretion, 1938, 123: 359
 lactic acid, and potassium movement, 1940, 131: 498
 leukocyte response, 1951, 166: 524
 liberation from adrenaline ester by hydrolysis, 1941, 135: 1
 liver blood flow, 1941, 132: 713
 mechanism of acute lethal effect, 1950, 160: 479
 melanophores, after denervation, 1941, 132: 245
 metabolism of peripheral tissues, 1939, 125: 699; 1947, 149: 64
 muscle sensitivity to acetylcholine and potassium, 1946, 146: 569
 muscle tone of decerebrate dog, 1942, 137: 252
 muscularis mucosae, 1945, 143: 329; 1947, 148: 669
 nasal volume, and temperature, 1945, 144: 307
 nerve-free smooth muscle of chick amnion, 1940, 131: 530
 nictitating membrane, 1938, 121: 149; 1939, 125: 277; 1942, 135: 453
 after ergotoxine 1940, 128: 698
 of adrenal glands, 1950, 162: 411
 of isolated nerves, 1939, 127: 263
 of plasma, and *I*-arterenol, 1951, 166: 304
 opacities of the lens due to, 1940, 130: 543
 output in adrenal glands, 1951, 166: 284
 oxidation by tyrosinase, 1942, 136: 67
 O₂ consumption of fish, 1942, 137: 533
 O₂ saturation of venous blood, 1938, 124: 16
 papillary electrograms, 1949, 156: 31
 partially denervated smooth muscle, 1940, 130: 475
 perfused liver, 1938, 124: 708
 phosphorus exchange between blood and muscle, 1941, 134: 43
 pithing and hypertension due to, 1940, 130: 1
 plasma prothrombin, 1946, 145: 452
 clotting time, 1946, 145: 455
 potassium balance of hind legs, 1941, 132: 11
 potentiation of response by flavonoids, 1951, 164: 391
 precursors of, 1951, 164: 476
 presence in adrenergic neurones, 1939, 125: 767
 pressor effect in traumatic shock, 1940, 130: 623
 production of experimental polycythemia, 1942, 137: 699
 prolongation of vasoactivity by vitamin P, 1951, 165: 299
 pulmonary arterial pressure, 1939, 125: 136; 1942, 137: 628
 pulmonary vascular resistance, 1951, 167: 756
 pulmonary venous pressure, 1939, 125: 136
 pulmonary ventilation, 1940, 129: 157
 activity of, 1942, 137: 485
 reaction of human umbilical artery, 1951, 164: 86
 reactivity of pulmonary blood vessels, 1951, 167: 732
 release by stimulation of hypothalamus, 1942, 136: 376
 renal and vascular responses, in fish, 1939, 126: 347
 renal function and circulation, 1947, 151: 621
 renal hypertension, 1950, 162: 371
 resistance against, 1938, 123: 760
 resistance to G forces, 1946, 146: 42; 1947, 150: 23; 1949, 156: 137
 respiration, 1950, 160: 485
 respiratory exchange, 1944, 142: 753
 respiratory response to hypoxemia, 1950, 161: 51
 respiratory tract fluid, 1943, 138: 566
 response of denervated heart, 1938, 121: 555
 secretion, and acetylcholine, 1940, 130: 268
 sensitivity, and nerve supply, 1942, 137: 87
 sensitization of denervated heart, 1940, 131: 409
 severe hypoxemia, 1948, 152: 623
 shock from prolonged injection of, 1941, 131: 545
 site of injection and activity, 1949, 157: 52
 smooth muscle, 1940, 130: 630
 spinal neurones after acetylcholine, 1947, 150: 42
 spleen in severe hypoxia, 1951, 165: 221
 structure and cardiac effects, 1940, 130: 190
 survival time, in drowning, 1951, 167: 101
 of decapitated head, 1944, 142: 154
 survival to explosive decompression, 1950, 163: 401
 sympathectomized cat, 1939, 126: 177
 TEA and response, 1949, 157: 161
 tubal contraction, 1940, 129: 260
 turtle heart, 1940, 129: 668
 uric acid excretion, 1938, 123: 625
 uterine muscle, 1940, 128: 374
 vascular reactivity, 1949, 156: 414
 vascular system, as measured by radioactive krypton, 1945, 144: 166
 vascular tone, 1941, 135: 51

EPINEPHRINE

- venous hematocrit, 1942, 137: 717
- venous pressure, 1951, 165: 530
- vertical-tube curves of rabbit ear blood vessels, 1951, 164: 337
- water balance, 1948, 155: 312

EPINEPHRINE ESTER

- excretion after oral administration of adrenaline, 1941, 135: 1

- pharmacological properties 1941, 135: 1

EPINEPHRINE-LIKE SUBSTANCES

- adrenalone, epinephrine response, 1943, 140: 372
- photocolorimetric analysis for, 1945, 144: 321
- recovery from kidney, 1938, 123: 364
- released from heart by acetylcholine, 1945, 144: 195

EPINEURIUM: see NERVE SHEATH**EPININE**

- as cardiac accelerator, 1940, 130: 193
- conjugation, excretion, and deamination, 1945, 144: 321
- intestinal motility, 1939, 126: 241
- volume and enzyme content of pancreatic secretion, 1944, 141: 510

EPIPHYSEAL CARTILAGE

- estrogen and, 1946, 147: 522

EPITESTOSTERONE: see TESTOSTERONE, epi-**EPITHELIUM**

- ascorbic acid, 1943, 139: 21
- ciliated, reactions of, 1948, 152: 1
- weight carrying capacity, 1948, 152: 1

EPPRIGHT, ERCEL S. and SMITH, A. H. Mineral dietary supplements and tissue water, 1938, 121: 379**EPSTEIN, J. H.: see GOLSTEIN, N. P.****EPSTEIN, M. A.: see OTIS, A. B.****ERGONOVINE**

- blocking of epinephrine cardioacceleration, 1950, 163: 485
- resistance to acceleration, 1945, 143: 267

ERGOTAMINE

- action of renin, 1938, 124: 84
- adrenal cortex, 1950, 160: 495
- as antagonist to acetylcholine in cardiac effect, 1945, 144: 191
- blocking of epinephrine cardioacceleration, 1950, 163: 485
- blood flow in bronchial artery, 1947, 148: 661
- cardiovascular sensitivity to potassium, 1947, 149: 593
- denervated muscles, 1949, 158: 142
- denervated nictitating membrane, 1949, 156: 281
- electrocardiogram, 1950, 161: 290
- hemodynamic effects of acetylcholine, 1940, 129: 53
- intestinal motility, 1944, 141: 463
- response to stimulation of bladder, 1939, 125: 305

ERGOTHIONEINE

- antithyroid activity of, 1949, 156: 377

ERGOTOZINE

- denervated blood vessels, 1943, 139: 426
- electric responses of smooth muscle, 1942, 137: 270
- hyper- and hypothermia with, 1950, 163: 62
- muscle fatigue, 1939, 125: 198
- renal blood flow in perfusion, 1941, 133: 25

- survival to explosive decompression, 1950, 163: 401
- thermal reactions to, 1948, 155: 64; 1949, 156: 170

ERICKSON, B. N.: see FERGUSON, J. H.**ERICKSON, DOROTHY M.: see KOTTKE, F. J.****— See VISSCHER, M. B.****ERICKSON, L., SIMONSON, E., TAYLOR, H. L., ALEX-**

- ANDER, H. and KEYS, A. Energy cost of horizontal and grade walking, 1946, 145: 391

— See TAYLOR, H. L.**ERLANGER, J. and BLAIR, E. A. Repetitiveness of motor and sensory fibers, 1938, 121: 431****— and BLAIR, E. A. Salt-free isotonic solutions and nerve conduction, 1938, 124: 341****— and SCHOEPFLE, G. M. Nerve degeneration and regeneration, 1946, 147: 550****—, BLAIR, E. A. and SCHOEPFLE, G. M. Strychnine action on nerve fibers, 1941, 134: 705****— See BLAIR, E. A.****— See SCHOEPFLE, G. M.****ERSHLER, I., KOSSMAN, C. E. and WHITE, M. S. Venous pressure and circulation time in anoxia, 1943, 138: 593****ERSHOFF, B. H. Nutritive value of lactose and galactose, 1946, 147: 13****— Purified rations and deciduomal formation, 1944, 141: 365****— and DEUEL, H. J., JR. Feeding yeast and alpha-estradiol, 1946, 145: 465****— and DEUEL, H. J., JR. Nutritive value of fats with sucrose or lactose, 1947, 148: 45****— and HERSHBERG, D. Yeast and cardiac failure in hyperthyroidism, 1945, 145: 16****— See BRUNISH, VIRGINIA H.****— See TEMPLETON, H. A.****ERTON: see VITAMINS D****ERVIN, D. M.: see LAWRENCE, J. S.****ERYTHEMA**

- of sunburn, mechanism of action, 1946, 146: 104
- threshold for sunburn, 1946, 146: 108

ERYTHROCYTE COUNT

- after splenectomy and cholesterol feeding, 1947, 149: 1
- choline, lecithin, 1944, 142: 66
- cobalt intake, 1945, 144: 465
- dehydration, 1945, 145: 155
- during dietary restrictions in man, 1946, 147: 47
- environmental conditions, 1940, 129: 75
- error of estimate, 1940, 128: 309
- hemorrhage, 1947, 148: 427
- heredity, 1938, 122: 480
- high fat, and choline intake, 1945, 144: 445
- hypercapnia, 1940, 129: 526
- in benzene poisoning, on protein-deficient diet, 1945, 145: 172
- in college women, 1944, 142: 730
- in induced hyperchromic anemia, 1946, 147: 406
- in peripheral blood, 1950, 162: 709
- in total biliary fistula dogs without bile therapy, 1945, 144: 627
- lard, choline and, 1944, 142: 214
- opacity of suspensions, 1941, 134: 739

- pyridoxine deficiency, 1946, 146: 727
 protein level and, 1946, 146: 727
 sex hormones, 1943, 138: 479
 starvation, and recovery, 1947, 151: 526
 x-irradiation, 1950, 161: 507
- ERYTHROCYTE NUMBER:** *see* ERYTHROCYTE COUNT
- ERYTHROCYTE VOLUME (TOTAL)**
 calculation, 1941, 132: 411; 1951, 164: 613
 circulating, adrenaline and, 1948, 155: 239
 comparison of direct and indirect technics for measuring, 1948, 155: 232
 determination of, 1942, 137: 539
 determination with radioactive phosphorus, 1948, 155: 226
 measurement with methemoglobin-tagged cells, 1948, 153: 322
 determination of, with washout technique, 1946, 147: 412
 gelatin and, 1943, 139: 439
 intravenous gelatin and, 1944, 140: 637
 whole-body x-irradiation, 1951, 164: 453
- ERYTHROCYTES**
 absorption of T-1824, 1938, 121: 284
 acetylcholine synthesis, 1947, 148: 418
 activation of estrone, 1951, 164: 774
 adenine derivatives, 1951, 167: 749
 age and cholinesterase activity, 1949, 158: 72
 avitaminosis A and, 1938, 122: 589
 blood iodine transport by, 1951, 164: 783
 chloride of, 1938, 122: 228
 splenectomy and, 1950, 160: 297
 cholinesterase activity, 1949, 157: 82
 concentration, in spleen following barbiturate anesthesia, 1943, 138: 415
 pulse transmission and, 1947, 149: 317
 turnover of sodium and, 1951, 167: 335
 destruction on high fat diet, 1943, 138: 230
 diameter, in young women, 1940, 128: 383
 distribution of estradiol with serum, 1948, 152: 189
 distribution ratio of lactic acid between, and serum, 1942, 138: 8
 estrogens and x-ray injury to, 1949, 159: 273
 evisceration and, 1950, 160: 248
 exchange of water between, and serum, 1940, 128: 639
 fragility, fat ingestion and, 1943, 140: 350
 induced by stasis, 1943, 138: 519
 physical exertion and, 1943, 139: 569
 gravity shock and, 1944, 141: 166
 heterologous, depressor effect, 1938, 124: 402
 histotoxic anoxia and, 1950, 163: 126
 human, P³² uptake in vitro, 1951, 164: 213
 in treatment of hemorrhagic shock, 1946, 147: 160
 inhibition of P³² uptake, 1951, 164: 213
 labeled, for determination of blood volume, 1947, 148: 533
 with radioactive iron, 1942, 135: 601; cardiac output and, 1946, 147: 493
 with radioactive phosphorus, 1947, 148: 653
 life cycle in dog, 1938, 122: 418
 life span of, 1951, 165: 565
 light transmittance of whole blood and, 1951, 165: 229
 lipids of, and pancreas, 1940, 129: 581
 mammalian, snake venom and, 1949, 158: 77
 mass, estimation in dogs, 1944, 141: 364
 methemoglobin formation and reduction in, 1949, 159: 47
 mobilization from spleen in severe hypoxia, 1951, 165: 215
 movement of CO₂ between, and serum, 1947, 148: 568
 or inorganic phosphorus between, and serum, 1947, 149: 679
 O₂ consumption, after adrenalectomy, 1947, 149: 502
 oxygenation of, and gum acacia, 1941, 132: 529
 penetration by radioactive sodium, 1941, 132: 228
 permeability of, 1950, 162: 610; 1951, 164: 423
 to potassium, 1941, 135: 93
 to water, sodium, and potassium, 1947, 149: 340
 physostigmine, acetylcholine and permeability of, 1950, 162: 610
 potassium content of, splenectomy and, 1950, 160: 297
 radioactive potassium in, 1941, 132: 482
 relative velocity, in circulation, 1949, 157: 153
 reutilization of iron after destruction, 1942, 135: 596
 sodium of, splenectomy and, 1950, 160: 297
 sodium chloride influence on O₂ consumption of muscle, 1943, 139: 84
 thermal fragility, 1951, 164: 202
 variability, in women, 1943, 138: 627
 variations in diameter, 1944, 141: 271
 in women, 1943, 138: 627
 vitamin B₆ and, 1945, 144: 353
 volume, determination of, 1942, 137: 447
 water content, splenectomy and, 1950, 160: 297
- ERYTHROID CELLS**
 metabolism, 1940, 131: 183
- β-ERYTHROIDINE**
 denervated nictitating membrane and, 1949, 156: 280
- ERYTHROPOIESIS**
 biotin deficiency, 1945, 145: 56
 choline, 1944, 142: 66
 folic acid deficiency, 1945, 145: 64
 hemorrhagic, and O₂ saturation of bone marrow, 1948, 153: 521
 in anemia, and copper, 1944, 141: 322
 increased by cobalt intake, 1945, 144: 464
 oxygenation of blood, in bone marrow and, 1947, 150: 618
 stimulation, by cobalt, 1940, 128: 347
 by copper, 1944, 142: 179
 testosterone and, 1951, 165: 476
 vitamin B₆ and, 1945, 144: 353
 vitamin deficiencies, 1945, 145: 54
 xanthopterin, 1948, 153: 133
- ES:** *see* PHYSOSTIGMINE
- ESCHATIN:** *see* ADRENOCORTICAL HORMONES
- ESCOBAR, ISABEL:** *see* CARRASCO-FORMIGUERA, R.
- ESCULIN**
 connective tissue and, 1949, 157: 423
- ESERINE:** *see* PHYSOSTIGMINE
- ESIDRONE**
 chloride excretion, 1942, 135: 593

ESIDRONE

mercury base of, and chloride excretion, 1942, 135: 593

ESOPHAGUS

nervous control of, 1948, 154: 343

ESPENAN, JULIA K.: *see* BEARD, H. H.

ESSEX, H. E. and DE REZENDE, N. Injury and repair of peripheral nerves, 1943, 140: 107

— and GRAÑA, A. Transient leukopenia, 1949, 158: 396

—, HERRICK, J. F., BALDES, E. J. and MANN, F. C. Circulation and exercise after cardiac denervation, 1943, 138: 687

—, HERRICK, J. F., BALDES, E. J. and MANN, F. C. Circulation years after sympathetic ganglionectomy, 1943, 139: 351

—, HERRICK, J. F., BALDES, E. J. and MANN, F. C. Coronary and systemic circulation during exercise, 1939, 125: 614

—, HERRICK, J. F., MANN, F. C. and BALDES, E. J. Atropine and coronary flow after cardiac denervation, 1943, 138: 683

— *See* BOQUET, P.

— *See* CARR, D. T.

— *See* COLFER, H. F.

— *See* GRAÑA, A.

— *See* GRIFFIN, G. D. J.

— *See* HART, W. M.

— *See* HAUSNER, E.

— *See* HERRICK, J. F.

— *See* HESTER, H. R.

— *See* HWANG, K.

— *See* LEVINSON, J. P.

— *See* QUINTANILLA, R.

— *See* ROCHA E SILVA, M.

— *See* SOLIS, J. T.

— *See* SOSKIN, S.

— *See* STEGGERDA, F. R.

— *See* TAKARO, T.

— *See* THOMAS, W. D.

— *See* VIGRAN, I. M.

ESTABLE, J. J.: *see* SOLLMANN, T.

ESTANDÍA, A.: *see* HARRIS, A. S.

ESTERASE

of plasma, liver esterase and, 1947, 149: 614

of serum, colorimetric determination, 1949, 159: 337

ESTRADIOL

adaptation to overdosage, 1940, 130: 358

adrenal size, 1945, 144: 653

adrenal weight, 1941, 132: 371

ascorbic acid excretion, 1943, 140: 261

benzoate, cholinergic effects, 1940, 131: 200; 1940, 131: 422

excretion of creatine and creatinine, 1941, 132: 189

long-term injection, and gonadotropic response, 1938, 121: 795

bioassay, 1947, 150: 445

body and organ weights of castrated mice, 1948, 155: 266

cholinergic effects, 1939, 128: 148; 1940, 131: 200; 1940, 131: 422

dipropionate, elevation of blood pressure by, 1951, 164: 70

interrelation of activity with adrenal cortical hormones, 1949, 159: 118

parathyroid glands and, action on bone, 1946, 147: 522

resistance to G forces, 1946, 146: 41

distribution between serum and red cells, 1948, 152: 189

distribution coefficients for, 1951, 165: 667

erythrocyte count and, 1943, 138: 483

gall bladder motility, 1941, 132: 136

gonadotropic secretions, 1941, 134: 141

growth rate, and food intake, 1949, 159: 284

hypertensive rats after hypophysectomy, 1946, 147: 471

inhibition of gonadotrophic hormone, 1951, 164: 26

kidney function, 1951, 165: 93

1-methyl-, body and organ weights of castrated mice and, 1948, 155: 266

micturition volume in rat, 1943, 139: 535

of blood, after injection, 1951, 165: 672

of serum, 1951, 165: 672

overt and masked actions, 1943, 139: 99

pituitary and adrenal cortical antagonism, 1948, 152: 131

progesterone interaction in formation of placentomata, 1939, 128: 215

recovery from fat, 1951, 165: 670

survival after adrenalectomy and, 1940, 131: 415

tissue enzymes, 1947, 151: 126

tubal contractions, 1940, 129: 261

x-ray injury, 1949, 159: 277

ESTRIN: *see* ESTROGENS

ESTRIOL

excretion during menstrual cycle and pregnancy 1938, 121: 100

tissue enzymes, 1947, 151: 126

ESTROGENS

estrogenic potency in chick, 1946, 147: 584

formation of actomyosin by, 1950, 162: 406

gall bladder evacuation, 1942, 135: 349

pretreatment with, and response to rabbit ovulating factor from plant juices, 1944, 142: 487

urinary and genital tract phosphatases, 1949, 156: 401

ESTRONE

activation by red cells, 1951, 164: 774

cholinergic effects, 1939, 128: 149

deprivation and uterine bleeding, 1938, 124: 3

dietary achromotrichia, 1944, 141: 260

distribution coefficients, 1951, 165: 669

excretion during menstrual cycle and pregnancy, 1938, 121: 100

fat metabolism, 1938, 122: 73

growth rate, food intake and, 1949, 159: 284

thyroid iodine content and, 1945, 144: 367

in renal hypertension, 1940, 130: 570

liver and kidney metabolism, 1938, 122: 113; 1938, 122: 168

metabolism in liver, 1950, 160: 41

in organs, 1951, 167: 166

- 1-methyl-, body and organ weights of castrated mice, 1948, 155: 266
ovarectomized, alloxan diabetic animals, 1947, 150: 90
pelvic ligatures, 1947, 151: 135
pigeon crop-sac response to prolactin, 1939, 127: 422
pretreatment for copper-induced pseudopregnancy, 1943, 139: 135
quantitative effect, 1938, 124: 261
respiratory metabolism, 1938, 124: 114
storage in perfused ovary, 1951, 167: 166
thyroid activity and response to, 1947, 150: 760
tissue enzymes, 1947, 151: 126
uterine weight, 1940, 129: 547
- ESTROUS CYCLE**
caloric restriction, 1948, 154: 520
contubular contractions in rabbit, 1940, 129: 260
hypothalamic lesions, 1940, 129: 39
inhibition by progesterone, 1938, 122: 176
on yellow corn diet and vitamin D, 1943, 139: 693
progesterin of corpus luteum, 1938, 123: 473
uterine fluid, 1938, 122: 602
vitamin B complex and, in hyperthyroid rats, 1938, 124: 683
- ESTRUS**
acetylcholine relaxation of oviduct, 1940, 131: 240
inhibition by lithospermum ruderalis, 1951, 167: 379
weight and water of uterus, 1939, 126: 165
- ETHER ANESTHESIA**
acetylcholine of brain, 1950, 162: 472
blood of rat, 1950, 160: 277
blood electrolytes, 1940, 131: 449
blood picture of cat, 1948, 152: 7
blood supply to brain parts, 1940, 129: 650
body temperature, 1942, 137: 260
cardiovascular factors, 1949, 159: 383
carotid occlusion and arterial pressure, 1950, 162: 554
cervical lymph flow, 1948, 155: 50
circulatory responses of chronic spinal dogs, 1941, 134: 65
of normal and sympathectomized dogs, 1941, 133: 70
cord transection, plasma volume and blood pressure, 1941, 134: 310
fibrillation and atrophy of denervated muscle, 1942, 135: 749
flow and cell content of thoracic duct lymph, 1950, 160: 9
histamine release in anaphylaxis, 1940, 129: 738
inhibition of pseudopregnancy, 1950, 161: 524
lymph production, 1948, 154: 475
magnesium, blood level and, 1942, 135: 493
maintenance of liver glycogen, 1942, 136: 746
narcosis, and dilantin, 1951, 166: 718
nervous structures, 1947, 150: 541
peripheral action potential, 1947, 148: 179
plasma volume, 1941, 132: 796
extracellular fluid and, 1938, 124: 391
renal function, 1945, 143: 108; 1947, 150: 530
survival after explosive decompression, 1950, 162: 456
temperature regulation, 1948, 152: 663
- ETHYL ACETATE**
arterial venous and right auricular pressure, 1942, 136: 117
- ETHYL ALCOHOL: see ALCOHOL (ETHYL)**
- ETHYL BIS(β -CHLOROETHYL)AMINE**
convulsant activity of, 1950, 160: 197
inhibition of brain cholinesterase by, 1950, 160: 192
- ETHYL DIIDOBRASSIDATE**
excretion of iodine from, in saliva, 1943, 139: 215
- ETHYL- β -METHYL ALLYL THIOBARBITURIC ACID**
adaptation to motion sickness, 1948, 154: 444
fatigue produced by wakefulness, 1947, 150: 257
with hyoscine, for treatment of motion sickness, 1946, 146: 463
- ETHYL PANTOTHENATE: see PANTOTHENIC ACID**
- ETHYL MONOACETYL PANTOTHENATE: see PANTOTHENIC ACID**
- ETHYL PROPIONATE**
permeability of erythrocytes, 1951, 164: 424
- ETHYL TESTOSTERONE: see TESTOSTERONE, 17-ethyl**
- 3-(N-ETHYL-N-2-CHLORO-ETHYL) AMINOETHYL THIAPHTHENE HCl**
inhibition of hyperglycemia with, 1951, 165: 68
- N-ETHYL-N-(2-CHLOROETHYL) BENZHYDRYLAMINE HCl**
inhibition of hyperglycemia with, 1951, 165: 68
- ETHYL-2-CHLOROETHYL-2-ORTHO-BENZYLPHENOXY-ETHYLAMINE HCl**
inhibition of hyperglycemia with, 1951, 165: 68
- ETHYLENEDIAMINE**
blood flow in bronchial artery, 1947, 148: 661
- ETHYNYL TESTOSTERONE: see TESTOSTERONE, ethynyl**
- 17-ETHYNYL- Δ -ANDROSTENEDIOL-3 β ,17 β : see ANDROSTENEDIOLS**
- 17-ETHYNYLANDROSTANEDIOL-3 β ,17 β : see ANDROSTANEDIOLS**
- ETIOCHOLANOL-3 α ,one-17**
body weight of mice, 1949, 158: 54
- ETS, H. N. and FEINBERG, I. M. Action of indole, 1942, 136: 647**
- ETSTEN, B.: see HOMBURGER, E.**
- EUGENOL**
gastric mucous barrier, 1950, 162: 120
- EUPNEA**
electrical activity of phrenic nerve during, 1949, 159: 16
- EVANS BLUE**
absorption by red blood cells, 1938, 121: 284
arterio-venous distribution of, 1950, 161: 221
binding by plasma protein, 1943, 138: 708
blood volume, and, 1946, 146: 740
after bed rest, 1945, 144: 228
determination during traumatic shock, 1945, 144: 430
in children, 1947, 151: 448
in hemorrhagic and traumatic shock, 1945, 144: 596
body fluid volumes, 1947, 151: 504
capillary permeability and, 1948, 154: 16; 1948, 154: 19
of newly formed capillaries, 1946, 147: 237
cardiac output and, 1946, 147: 493; 1948, 153: 309

EVANS BLUE

- combination with plasma albumin, 1950, 161: 473
- combination with plasma protein, 1947, 151: 26
- comparison as measure of circulating erythrocytes with radioactive phosphorus, 1948, 155: 232
- with antigens as measure of plasma volume, 1950, 163: 517
- disappearance from blood stream, 1943, 138: 636, 1943, 138: 698; 1947, 151: 290; 1948, 154: 19
- in various conditions, 1947, 151: 27
- ethanol precipitation of plasma, 1950, 161: 212
- excretion in bile, 1947, 151: 229
- hyaluronidase and passage through capillary wall, 1949, 156: 429
- mixing curve of, 1947, 151: 234
- mixing with cells and plasma, 1947, 151: 282
- of blood, 1948, 154: 27
- or urine, 1948, 154: 27
- plasma concentration curves after successive injections, 1950, 161: 483
- plasma volume, and, 1939, 125: 144
- during hemorrhage, 1945, 144: 199
- plasma and cell volume estimation, 1951, 165: 205
- reaction with albumin and liver slices, 1951, 164: 123
- spectrophotometric measurement in serum and urine, 1948, 154: 27
- total red blood cell volume determination, 1946, 147: 412
- validity in plasma volume determinations, 1948, 152: 563
- vitamin C deficiency and diffusion, 1950, 161: 283
- EVANS, G. T. Insulin and cardiac and liver glycogen, 1941, 134: 798
- See KOTKE, F. J.
- EVANS, H. M., LUCK, J. M., PENCHARZ, R. I. and STONER, H. C. Hypophysis and calorogenic action of amino acids, 1938, 122: 533
- See BENNETT, L. L.
- See FRAENKEL-CONRAT, H. L.
- See FRAENKEL-CONRAT, JANE
- See HERRING, V. V.
- See INGLE, D. J.
- See MARX, W.
- See VAN DYKE, D. C.
- EVANS, J. N.: see MCFARLAND, R. A.
- EVANS, MARGARET A. and HAIST, R. E. Insulin and islets of Langerhans, 1951, 167: 176
- EVANS, R. D.: see HERTZ, S.
- See LEBLOND, C. P.
- EVANS, R. J. and PHILLIPS, P. H. Toxicity of cryolite fluorine, 1939, 126: 713
- EVAPORATION
- from skin, clothing and at various temperatures, 1938, 124: 44
- heat loss, 1940, 129: 88
- rates under various conditions, 1938, 123: 371
- wind velocity and, 1947, 151: 626
- EVERETT, G. M. Behavior and neurophysiology in thiamin deficiency, 1944, 141: 439
- EVERETT, J. W.: see SAWYER, C. H.

See page iii for guide to use of index

- EVERETT, N. B. and JOHNSON, R. J. Fetal circulation, 1950, 162: 147
- EVERSOLE, W. J., GAUNT, R. and KENDALL, E. C. Adrenal steroids and water intoxication, 1942, 135: 378
- , KLEINBERG, W., OVERMAN, R. R., REMINGTON, J. W. and SWINGLE, W. W. Nervous factor in shock induced by muscle trauma, 1944, 140: 490
- See KLEINBERG, W.
- See SWINGLE, W. W.
- EVIPAL
- Hering-Breuer reflexes, 1942, 136: 8
- survival after explosive decompression, 1950, 162: 456
- EVisCERATION
- blood changes following, 1950, 160: 247
- blood glucose level, 1947, 150: 424
- blood lactic acid response to adrenaline, 1938, 123: 435
- fasting and, blood sugar curve, 1944, 141: 477
- gluconeogenesis in kidney after, 1944, 142: 241
- glucose utilization, 1940, 130: 250
- maintenance of blood sugar after, 1944, 141: 3
- metabolism in, previous diet and role of kidney, 1946, 146: 359
- one-stage method for rabbit, 1951, 164: 630
- EWING, MARY E.: see BLATHERWICK, N. R.
- EXCITABILITY
- electrical, of striated muscle, 1940, 129: 22
- of superior cervical ganglion, 1941, 131: 572
- loss during deep-freezing, 1949, 156: 333
- of ciliated epithelium, 1948, 152: 1
- of degenerating nerves, 1946, 147: 553
- of frog muscle, iodoacetate, iodoacetamide and, 1938, 122: 390
- of isolated heart muscle, 1951, 164: 589
- of nerve, direct current and, 1941, 132: 57
- of nerve fiber, strychnine and, 1941, 134: 707
- of ventricle, 1951, 166: 610
- oscillations in, various conditions and, 1941, 134: 705
- recovery after conditioning shock, 1938, 123: 328
- Wallerian degeneration, 1939, 128: 20
- EXCITATION
- conduction, in smooth muscle, 1938, 122: 614
- in single nerve fiber, 1939, 125: 381
- local, in axons, 1938, 123: 455
- of nerves across a block, 1939, 126: 97
- traversing a quiescent area, 1938, 122: 27
- EXCITEMENT
- brain acetylcholine, 1949, 159: 251
- corneal mitosis, 1944, 141: 690
- emotional, sympathin and hyperglycemia, 1938, 121: 738
- intestinal absorption, 1940, 129: 178
- EXERCISE
- acid-base equilibrium of blood in, 1942, 137: 743
- altitude pain and, 1945, 145: 281
- alveolar O₂ and CO₂ tensions, 1947, 151: 276
- at high altitude, and carboxyhemoglobin concentration, 1947, 148: 141
- blood changes during, 1938, 121: 293
- blood flow in abdominal arteries, 1940, 128: 338

- blood serum changes after, 1940, 128: 420
 breath holding time, 1947, 150: 146
 breathing pattern and, 1949, 157: 274
 carbohydrate metabolism of, 1943, 138: 747
 cardiovascular adjustments to, in dry heat, 1943, 139: 586
 circulatory response to, 1945, 143: 423
 CO₂ breathing, and, 1947, 149: 43
 cardio-vascular measurements in, collapse, 1945, 143: 14.
 comparative responses of men and women, 1942, 137: 318
 coronary blood flow, 1939, 125: 619
 denitrogenation of muscle, 1946, 146: 235
 heart rate, and coronary blood flow after denervation, 1943, 138: 689
 heat exchange, 1938, 123: 488
 helium elimination, 1941, 131: 621
 hyperpnea in and reflexes from limbs, 1943, 138: 536
 hypothalamic obesity and, 1946, 147: 708
 in spinal dog, respiration during, 1950, 162: 64
 intensity, duration and recovery time, 1947, 149: 606
 irradiation and, 1951, 167: 626
 ketosis, 1941, 134: 761
 lactate of blood, 1938, 124: 254; 1944, 141: 635
 of brain and, 1948, 154: 76
 lactic acid in blood and muscle, 1938, 122: 360
 lactic acid mechanism in the blood, 1941, 132: 757
 laking of erythrocytes and, 1943, 139: 569
 lung circulation, 1948, 152: 372
 metabolic effect of local ischemia, 1942, 138: 21
 metabolic recovery rates from, 1948, 152: 465
 metabolism and body build, 1940, 129: 8
 methemoglobinemia and, 1946, 146: 702
 muscle soreness following, 1938, 122: 569
 muscular, resistance against, 1938, 123: 762
 nitrogen elimination from body, 1941, 131: 623
 O₂ consumption at high altitude, 1945, 144: 637
 O₂ pressure gradient from alveolar air to blood, 1946, 147: 199
 O₂ saturation of venous blood, 1938, 124: 16
 palmar skin resistance, 1946, 147: 5
 pH of synovial fluid, 1946, 146: 7
 phosphocreatine and glycogen of heart, 1943, 138: 652
 physical fitness and, 1947, 149: 197
 physiological variations and tolerance, 1944, 142: 200
 physiology of, 1941, 135: 27
 pulmonary ventilation and O₂ consumption after, 1942, 138: 17
 pulse rate with certain B vitamin deficiencies, 1946, 147: 39
 renal circulation and, 1948, 152: 505
 respiration during, 1950, 162: 54
 respiratory gas exchange after, 1947, 149: 600
 respiratory quotient and muscular efficiency, 1938, 121: 123
 sedimentation rate and, 1945, 144: 224
 serum and muscle potassium in, 1941, 132: 801
 bicarbonate concentration during, 1938, 122: 105
 severity of decompression sickness, 1946, 147: 25
 sulfa drugs and ability to, 1942, 137: 595
 sulfanilamide effect during, 1941, 135: 77
 sympathectomized cat, 1939, 126: 173
 tolerance, thyroid, radiation and, 1951, 165: 656
 to radiation and, 1951, 165: 662
 urinary excretion during diuresis and, 1947, 148: 331
 venous pressure response to, 1938, 121: 574
 vitamin A deficiency and, 1942, 137: 554
 water of organs, 1940, 128: 539
 water and sodium excretion, and, 1951, 165: 149
See also WORK
EXOPHTHALMOS
 testicular activity and, 1938, 121: 620
 water and fat content of orbital tissues, 1943, 140: 310
EXPIRATION
 afferent impulses during, 1948, 155: 156
 deep rapid, skin cooling due to, 1948, 152: 122
 origin of patterns, 1941, 131: 681
 ventricular filling, 1944, 142: 52
EXPIRATORY CENTERS: see RESPIRATORY CENTERS
EXPIRED AIR
 adrenaline and composition of, 1940, 129: 159
EXPOSURE
 respiratory metabolism at high altitude, 1946, 146: 712
EXTENSOR TONE
 spinal cord asphyxiation and, 1943, 139: 617
EXTRACELLULAR FLUID
 calculations required for determining, 1940, 130: 423
 depletion of sodium and chloride from, 1950, 160: 89
 determination in rat, 1949, 156: 227
 electrolyte balance in, 1945, 143: 666
 environmental temperature, 1940, 129: 80
 ether anesthesia, 1938, 124: 391
 hyperthermia and hypothermia, 1951, 167: 485
 hypertonic plasma, 1944, 140: 595
 induced changes in, 1944, 142: 439
 injected 5 per cent glucose, 1944, 140: 592
 injected normal saline, 1944, 140: 591
 injection of hypertonic glucose, 1944, 140: 593
 interstitial fluid and climate, 1940, 130: 745
 movement of inulin from, to plasma, 1950, 150: 532
 volume, hypoproteinemia and, 1950, 162: 153; 1950, 162: 162
 volume in children, 1947, 151: 438
 inulin space as measure of, 1949, 157: 387
 measurement of, 1943, 139: 239; 1950, 160: 526
 measurement with thiocyanate, 1943, 139: 255; 1949, 156: 218; 1949, 156: 227
 in famine edema, 1947, 150: 174
 normal plasma, 1944, 140: 594
 of muscle, 1938, 124: 546
 penetration by radioactive substances, 1941, 132: 215
 volume, and renal function 1950, 162: 677
 seasonal variation in, 1947, 148: 457
EXTRACELLULAR SPACE
 in famine edema, 1947, 150: 174
 of liver and chloride space, 1939, 126: 402

EXTRAOCULAR MUSCLES

O₂ consumption, 1944, 142: 398

EXTRAPYRAMIDAL TRACTS

lesions of and conditioned reflexes, 1951, 166: 176

EXUDATES

inflammatory, toxic extracts of, 1946, 147: 379

peritoneal, O₂ consumption of white blood cells from, 1938, 123: 420

sugar, protein and urea concentration in, 1943, 138: 396

EYE

adrenaline and denervated iris, 1942, 135: 535

corneal epithelium, mitotic activity, 1944, 141: 689

electric threshold of human, 1947, 148: 378

exchange of radioactive and tissue potassium, 1941, 135: 152

indicator yellow in, 1943, 140: 40

lens and cervical sympathetic nerve, 1941, 133: 720

muscles, O₂ consumption, 1944, 142: 398

nerves to ciliary muscle in, 1942, 135: 759

parasympathetic sensitization in, 1941, 132: 437

refraction of, 1939, 127: 602

squid, action potentials of and chemicals, 1940, 130: 244

dark adapted tissue and, 1940, 130: 242

urethane of beta methylcholine chloride, 1942, 136: 173

vitreous humor, injection of fluids into, and refractive changes, 1947, 150: 568

water and fat in, in exophthalmos, 1943, 140: 310

EYELIDS

efficiency of glare reduction by, 1945, 143: 544

EYSTER, J. A. E. and GILSON, W. E. Cardiac injury potential, 1946, 145: 507

— and GILSON, W. E. Electrical signs of injuries to heart muscle, 1947, 150: 572

— and MEEK, W. J. Cardiac injury potentials, 1942, 138: 166

— and MEEK, W. J. Sequence of fractionate contractions on heart surface, 1941, 134: 513

—, MEEK, W. J. and GOLDBERG, H. Electrical and mechanical events in dog heart, 1941, 131: 760

—, MEEK, W. J., GOLDBERG, H. and GILSON, W. E. Potential changes in injured cardiac muscle, 1938, 124: 717

— See CRANFIELD, P. F.

— See GOLDBERG, H.

— See MAASKE, C. A.

EYZAGUIRRE, C., FOLK, B. P., ZIERLER, K. L. and LILIENTHAL, J. I., JR. Myotonic effects of 2,4-D, 1948, 155: 69

— See JARCHO, L. W.

F₂ FACTOR

in body fluids during dietary restrictions, 1946, 147: 47

929F

gastric secretion, 1943, 138: 343; 1943, 139: 329

933F

action of sympathin, 1938, 124: 62

See page iii for guide to use of index

hemodynamic effect of, 1939, 127: 31

index of auriculo-ventricular conductivity, 1939, 127: 276

mode of action, 1938, 123: 404

potassium distribution, 1950, 163: 154

rise of blood pressure after renal ischemia, 1940, 131: 19

1571 F

gastric secretion, 1943, 139: 329

FACILITATION (C.N.S.)

inhibition in cortex, and 1942, 135: 696

studies of, 1947, 150: 231

FACTOR A: see PROTHROMBIN

FACTOR B: see PROTHROMBIN

FACTOR W

appetite in rats, 1939, 127: 206

pyridoxine and, 1939, 128: 102

FAHEY, J. L., WARE, A. G. and SEEGER, W. H. Prothrombin and Ac-globulin stability, 1948, 154: 122

— See WARE, A. G.

FAHNESTOCK, M. K.: see GLICKMAN, N.

— See KEETON, R. W.

— See MITCHELL, H. H.

FAIRFIELD, JANET. Chilling in infant rats, 1948, 155: 355

FALKENHEIM, MARLENE. Growth and phosphorus metabolism of the mouse, 1942, 138: 175

FALLOPIAN TUBES

adrenaline, sex hormones and contraction of, 1940, 129: 260

FARADIZATION

muscle pain produced by, 1944, 142: 231

FARAH, A.: see GREEN, D. M.

— See WEST, T. C.

FARBER, S.: see DORRANCE, S. S.

— See SHANNON, J. A.

FARDON, J. C., SR., JUDD, TERESITA and PRINCE, J. E. Bioelectric phenomena in mice, 1946, 146: 403

FARR, L. E. and ALPERT, L. K. Endocrine extracts and blood amino acids, 1940, 128: 772

—, HARE, K. and PHILLIPS, R. A. Urea clearance in diabetes insipidus, 1938, 122: 288

FARRIS, E. J., YEAKEL, ELEANOR H. and MEDOFF, H. S. Development of hypertension in emotional animals, 1945, 144: 331

FASCILOLO, J. C. and CHIOLDI, H. P. Arterial oxygen pressure while breathing oxygen, 1946, 147: 54

FASMAN, G. D.: see VAN HARREVELD, A.

FASTING: see INANITION

FAT

acidosis and, in muscle, 1951, 167: 669

as storage for food, 1941, 132: 661

cervical, water of, 1942, 135: 434

cholinesterase in, 1947, 148: 677

deposition, after hypophysectomy, 1944, 141: 148

high protein diet and, 1941, 135: 195

insulin and, 1940, 131: 542

determination in tissues, 1944, 142: 510

- distribution in skin and muscle of dehydrated dogs, 1946, 147: 49
- exercise and denitrogenation of, 1946, 146: 235
- inguinal, water of, 1942, 135: 434
- intravenous, pyrogenic response to, 1951, 164: 490
- metabolism of, 1938, 124: 126
- adrenal cortical hormones and, 1951, 167: 613
- antagonism of lipocaiic to pituitary in, 1943, 138: 264
- of lactation, 1941, 132: 535
- sexual hormones and, 1938, 122: 73
- of blood and liver, relation to pancreas, 1940, 129: 578
- of liver, in hemorrhagic shock, 1945, 145: 33
- insulin and anterior pituitary and, 1946, 147: 742
- of tissues, 1944, 141: 146
- exophthalmos and, 1943, 140: 312
- hypertension and, 1950, 161: 279
- omental, water of, 1942, 135: 434
- perinephric, water of, 1942, 135: 434
- rancid, vitamin E destruction by, 1939, 125: 593
- specific dynamic action of, after pancreatectomy, 1940, 131: 357
- thiamin and, 1943, 138: 488
- subcutaneous, acetylcholine synthesis and, 1947, 148: 418
- rate of bubble formation in decompression and, 1946, 147: 19
- synthesis from carbohydrate in mammary gland, 1941, 132: 540
- see also LIPIDS
- FAT (DIETARY)**
- absorption of, 1948, 153: 264; 1950, 162: 80
- adrenalectomy and, 1941, 134: 619; 1942, 136: 712
- anoxia and, 1945, 143: 393
- bile and, 1948, 153: 144
- hydrogenation and oxidation and, 1938, 124: 800
- pancreatectomy and, 1943, 138: 792
- through lymphatics, 1938, 124: 466
- thyroxin and, 1938, 123: 582
- absorption of iron, 1942, 135: 264
- activity, 1944, 142: 664
- appetite, 1941, 131: 639
- in vitamin B deficiency, 1939, 127: 202
- ligation of bile duct and, 1942, 138: 71
- thiamin deficiency and, 1938, 124: 596
- benzene toxicity, 1945, 145: 159
- carbohydrate intake, 1947, 151: 530
- carbohydrate-sparing effect of, 1944, 140: 639
- choline and erythrocyte count, 1944, 142: 214
- common, nutritional value, 1941, 133: 29
- consumption in Army training centers, 1945, 144: 590
- digestion products, inhibition of pyloric sphincter by, 1941, 134: 804
- duodenal acidity and, 1942, 136: 287
- duodenal secretion and, 1949, 158: 122
- erythrocyte destruction, 1943, 138: 230
- excretion, after ligation of pancreatic duct, 1938, 122: 43
- fecal fat and, 1948, 153: 144
- gastric emptying time, 1947, 150: 462
- gastric motility, 1947, 148: 340
- growth of fish, 1940, 129: 216
- heart rate, 1940, 128: 613
- hemolytic anemia from, 1945, 144: 444
- hepatic acetone body production, 1940, 131: 10
- importance in fatty liver, 1946, 145: 671
- in duodenum, and gastric secretion, 1944, 141: 286
- inhibition of pyloric sphincter by, 1941, 134: 805
- liver regeneration and, 1950, 163: 347
- nitrogen balance and, 1950, 163: 347
- red blood cell fragility, 1943, 140: 350
- stomach, 1941, 134: 132
- sucrose or lactose and nutritive value, 1947, 148: 47
- water content of organs, 1940, 128: 539
- FAT DIET (HIGH)**
- alloxan diabetes, 1947, 151: 581
- changes in skin and body fat on, 1944, 142: 508
- erythrocyte destruction on, 1943, 138: 230
- fatty liver and, 1946, 147: 346
- gastric emptying time, 1947, 150: 462
- liver, 1946, 145: 649
- pancreatic enzymes, 1943, 138: 678
- prevention of fatty liver from, 1945, 144: 620
- production of fatty liver, 1946, 145: 671
- renal function of eviscerated rat, 1946, 146: 362
- survival under accelerated metabolism, 1949, 159: 33
- tolerance of man to cold, 1946, 146: 87
- FATIGABILITY**
- of muscle, and gelatine, 1940, 131: 426
- of normal and degenerating nerves, 1946, 147: 550
- Wallerian degeneration and, 1939, 128: 25
- FATIGUE**
- adrenaline, 1939, 125: 197
- benzedrine, 1942, 136: 392
- circulation, 1950, 163: 561
- contraction and transmission, 1942, 135: 763
- double work periods in studies of, 1942, 136: 81
- excitability of muscle, 1940, 129: 31
- muscular, in adrenalectomized animals, 1950, 162: 10
- recovery after intravenous potassium, 1941, 131: 615
- neuromuscular transmission, 1939, 126: 58; 1943, 140: 270
- of neurons and relation of temperature to death, 1938, 122: 551
- of depressor reflex, 1944, 142: 350
- P.S.R. as measure of, 1944, 142: 71
- recovery from transmission and contraction fatigue, 1942, 135: 768
- resistance to G forces and, 1949, 156: 137
- solubility of myosin, 1947, 149: 177
- venous pressure, 1938, 121: 575
- FATTY ACIDS**
- adrenalectomy and absorption of, 1943, 140: 44
- inhibition of pyloric sphincter by, 1941, 134: 804
- of blood serum of Eck fistula dogs, 1941, 133: 566
- of hepatic bile, and chronic fistula, 1945, 145: 187
- of liver during cholesterol feeding, 1947, 149: 4
- of various tissues, 1938, 122: 73
- transport by intestinal lymph, 1951, 166: 451

- FATTY LIVER: *see* LIVER, FATTY
- FAVATA, B. V.: *see* FENN, W. O.
- FAVATI, V.: *see* BISCHOFF, F.
- FAVOUR, C. B.: *see* METCOFF, J.
- FAVRE-GILLY, J. E.: *see* QUICK, A. J.
- FAY, MARION, BEHRMANN, VIVIAN G. and BUCK, DOROTHY M. Parathyroids and clearance of inorganic phosphate, 1942, 136: 716
- FAZEKAS, J. F. and HIMWICH, H. E. Anaerobic survival of adult animals, 1943, 139: 366
- , ALEXANDER, F. A. D. and HIMWICH, H. E. Tolerance of the newborn to anoxia, 1941, 134: 281
- *See* HIMWICH, H. E.
- *See* LIBET, B.
- *See* MARTIN, S. J.
- *See* SYKOWSKI, P.
- FEAR
- blood sugar, 1941, 133: 537
- brain lactic acid, 1948, 154: 76
- contraction of facial denervated muscle, 1938, 121: 611
- FEATHERS
- temperature of hens and, 1951, 166: 572
- FEATHERSTONE, R. M. and GROSS, E. G. *d*-Tubocurarine and oxidation in tissue, 1947, 148: 507
- FECES
- bile and fat content, 1948, 153: 144
- fat content after ligation of pancreatic duct, 1938, 122: 43
- nitrogen content of N-free diet, 1938, 121: 239; 1938, 123: 235
- radioactive iodine in, 1941, 132: 348
- separation of from water bathing gills of fish, 1951, 165: 581
- zinc excretion in, 1938, 124: 753
- FEDOR, E. J.: *see* SWINGLE, W. W.
- FEDOROV, N. A. and SHUR, E. I. Role of viscera in regulation of body temperature, 1942, 137: 30
- FEEDING
- basal metabolism, 1942, 137: 117
- experimental, and pancreatic tissue of salmon, 1943, 138: 560
- forced, and urinary N.P.N. of adrenalectomized rats 1946, 147: 222
- habits, in hypothalamic obesity, 1946, 147: 735
- intestinal absorption, 1940, 129: 180
- intestinal secretion, 1939, 128: 72
- FEELING-TONE
- work output and recovery, 1944, 141: 643
- FEIGEN, G. A. and CAMPBELL, D. H. Sensitivity of mucosal and peritoneal surfaces, 1946, 145: 676
- *See* ALLES, G. A.
- *See* VAN HARREVELD, A.
- FEINBERG, I. M.: *see* ETS, H. N.
- FEINDEL, W. H.: *see* WELD, C. B.
- FEIVESON, P.: *see* KLEITMAN, N.
- FELDMAN, H. A.: *see* OVERMAN, R. R.
- FELDMAN, J., CORTELL, RUTH and GELLHORN, E. Vago-insulin and sympathetico-adrenaline systems, 1940, 131: 281
- *See* BARTOLI, A.
- *See* CORTELL, RUTH
- *See* GELLHORN, E.
- FELDMAN, M., JR., ROBBARD, S. and KATZ, L. N. Cardiac output in hypoxemia, 1948, 154: 391
- FELS, S. S.: *see* PASCHKIS, K. E.
- FEMORAL ARTERIES
- arterial pulse wave in, 1949, 158: 290
- development of collateral circulation following occlusion, 1941, 132: 351
- FEMORAL NERVES
- stimulation, and electrical potential of gastric mucosa, 1947, 149: 88
- FEMUR
- sodium turnover in, 1951, 167: 336
- FENN, W. O. Fate of potassium liberated in muscular activity, 1939, 127: 356
- Loss of potassium from stimulated muscles, 1938, 124: 213
- and CHADWICK, L. E. Pressure breathing and circulation, 1947, 151: 270
- , COBB, DORIS M., MANERY, JEANNE F. and BLOOR, W. R. Electrolyte changes in muscle during stimulation, 1938, 121: 595
- , KOENEMANN, R. H., FAVATA, B. V. and SHERIDAN, EUGENIA T. Role of lactic acid in movements of potassium, 1940, 131: 494
- , NOONAN, T. R., MULLINS, L. J. and HAEGE, LORRAINE F. Exchange of radioactive and body potassium, 1941, 135: 149
- , OTIS, A. B., RAHN, H., CHADWICK, L. E. and HEGNAUER, A. H. Pressure breathing and circulation, 1947, 151: 258
- , RAHN, H. and OTIS, A. B. Theoretical composition of alveolar air at altitude, 1946, 146: 637
- , WILDE, W. S., BOAK, RUTH A. and KOENEMANN, R. H. Blood flow and potassium liberation from muscle, 1939, 128: 139
- *See* CLARK, R. T., JR.
- *See* MULLINS, L. J.
- *See* NOONAN, T. R.
- *See* OTIS, A. B.
- *See* RAHN, H.
- *See* WILLS, J. H.
- FENNING, C. and MOTT, C. R. Frog heart behavior in high frequency condenser field, 1945, 144: 1
- FENTON, P. F. Response of digestive tract to ingested glucose, 1945, 144: 609
- and PIERCE, H. B. Response of alimentary tract to cereal starch, 1947, 148: 296
- *See* BIRCHALL, E. F.
- *See* PIERCE, H. B.
- FERGUSON, C. C., ROGERS, C. S. and VARS, H. M. Liver protein after duct ligation, 1949, 159: 343
- *See* ROGERS, C. S.
- FERGUSON, D.: *see* ROBBARD, S.
- FERGUSON, D. J.: *see* VON KORFF, R. W.
- FERGUSON, F. P.: *see* ASHMAN, R.
- *See* EATON, A. G.
- FERGUSON, J. Nerve-free smooth muscle of chick amnion, 1940, 131: 524

- FERGUSON, J. H. Calcium and cephalin in thrombin formation, 1938, 123: 341
 — Clotting of hemophilic plasma, 1939, 126: 669
 — Role of some anticoagulants in blood clotting, 1940, 130: 759
 — and ERICKSON, B. N. Coagulant action of crystalline trypsin, 1939, 126: 661
 — and GLAZKO, A. J. Heparin and natural antiprotease, 1941, 134: 47
 — and RALPH, P. H. Ninhydrin, crystalline papain and fibrin clot, 1943, 138: 648
 — See GLAZKO, A. J.
 — See LEWIS, JESSICA H.
 FERGUSON, J. K. W. Vagal reflexes, 1940, 130: 675
 — See HATERIUS, H. O.
 — See HITCHCOCK, F. A.
 FERGUSON, R. L.: see PATRAS, MARY C.
 FERNALD, ALISON T.: see MARSHAK, A.
 FERNÁNDEZ, E.: see ALTAMIRANO, M.
 FERREBEE, J. W., PARKER, D., CARNES, W. H., GERITY, MILDRED K., ATCHLEY, D. W. and LOEB, R. F. Certain effects of desoxycorticosterone, 1941, 135: 230
 — See RAGAN, C.
 FERRET
 adrenalectomized, survival of pseudopregnant, 1938, 124: 767
 FERRIC BETA-GLOBULINATE
 capillary permeability of, 1948, 153: 503
 FERRIC IONS: see IRON
 FERRIS, B. G., JR., FORSTER, R. E., II, PILLION, E. L. and CHRISTENSEN, W. R. Control of peripheral blood flow, 1947, 150: 304
 — See FORSTER, R. E., II
 — See WESTERFELD, W. W.
 FERRIS, E. B., ENGEL, G. L., STEVENS, C. D. and LOGAN, MYRTLE. Cerebral metabolism and blood flow in man, 1946, 147: 517
 FERRIS, SHIRLEY and HIMWICH, H. E. Glycogen content of central nervous system, 1946, 146: 389
 FERRITIN
 antidiuretic action, 1950, 162: 198
 production of, by kidney, 1950, 160: 1
 FERROCYNANIDES
 clotting and, 1940, 128: 401; 1941, 134: 55
 inhibition of cytochrome oxidase, 1941, 131: 586
 renal clearance, 1950, 160: 325
 FERROUS IONS: see IRON
 FERRY-PORTER LAW
 for thermal sensation and discrimination, 1941, 134: 645
 FERTIG, J. W.: see WANG, S. C.
 FERTILITY
 adrenal cortical hormones, 1938, 122: 16
 caloric intake, 1947, 150: 515; 1951, 167: 375
 heat loss, 1939, 125: 38
 FERTILIZATION
 failure by motile sperm, 1941, 132: 791
 spermatozoa count, hyaluronidase titer and, 1948, 152: 271
 FETCHER, E. S., JR.: see VISSCHER, M. B.
 FETUS
 circulation in, 1950, 162: 147
 heart rate and blood pressure, 1951, 166: 32
 hemolytic activity of liver fractions, 1951, 164: 468
 intrauterine injury and vitamin B₁₂ deficiency, 1951, 165: 79
 kidney function in, 1938, 123: 482
 maternal plasma as source of iron, 1950, 161: 202
 size, and placental permeability, 1939, 128: 156; 1946, 147: 360
 survival and antuitrin-S, 1942, 137: 143
 FEVER
 acid-base balance of serum in, 1938, 123: 550
 brain metabolism, 1949, 157: 283
 cholinesterase of brain, 1948, 155: 56
 due to diathermy and brain metabolism, 1942, 136: 178
 due to intravenous fat, 1951, 164: 490
 experimental, produced with typhoid-paratyphoid vaccine, 1949, 158: 16
 fluid volume in, 1951, 167: 485
 gastric secretion, 1950, 160: 567
 in tropical mammals and reptiles, 1939, 125: 731
 lymph flow, 1940, 130: 34
 production of, by dinitrophenol, 1939, 125: 498
 pulmonary edema and, 1949, 158: 429
 pyrogen induced, 1949, 159: 511
 adrenalectomy and, 1950, 161: 528
 response to CO₂ and, 1949, 158: 16
 secretion and flow of bile, 1941, 132: 34
 stress response of adrenal cortex, 1950, 160: 502
 FEVOLD, H. L.: see ASTWOOD, E. B.
 — See FOSTER, M. A.
 FFF: see FLICKER FUSION FREQUENCY
 FIBRILLATION: see HEART FIBRILLATION; and MUSCLE, SKELETAL
 FIBRIN
 Ca-, solubility of, 1944, 142: 583
 lysis, by thrombin, 1938, 122: 596
 ninhydrin and crystalline papain, 1943, 138: 648
 of blood, and evisceration, 1950, 160: 250
 prothrombin consumption in coagulation, 1949, 158: 387
 T-, solubility of, 1944, 142: 583
 FIBRINOGEN
 coagulation factor and, 1947, 150: 405
 conversion to fibrin, 1944, 142: 585
 deficiency, and prothrombin in pups, 1951, 165: 188
 dicumarol and, 1945, 143: 102
 hepatectomy and, 1945, 145: 208; 1951, 164: 111
 in hemorrhagic shock, 1950, 162: 619
 interrelation with heparin, 1949, 156: 458
 lysis, by prostatic fluid, 1943, 139: 129
 of plasma, coagulation factor in stored, 1947, 150: 406
 preparation and standardization, 1949, 159: 303
 prothrombinemia and, 1941, 132: 666
 FIBRINOGENASE
 thrombin as, 1938, 122: 596

FIBRINOLYSIN

- as a source of vascularity, 1947, 150: 475
- physiological effects, 1947, 150: 472

FICK PRINCIPLE

- application to cerebral blood flow, 1945, 143: 53
- to quantitative measurements of blood flow, 1943, 138: 421
- comparison with bubble flow meter, 1950, 160: 547
- with conductivity method for cardiac output, 1947, 151: 55
- with rotameter method of measuring cardiac output and input, 1950, 160: 183
- for estimation of cardiac output, 1945, 143: 709; 1948, 153: 309; 1949, 159: 385
- compared with electrokymograph estimation, 1950, 161: 231
- use of direct and indirect for cardiac output, 1947, 151: 248

FICK STROKE INDEX

- comparison with stroke volume predicted from pulse pressure, 1948, 153: 303

FIDLAR, E.: *see* MONKHOUSE, F. C.

FIELD, J.: *see* CRISMON, J. M.

— *See* FISHGOLD, J. T.

— *See* FUHRMAN, F. A.

— *See* FUHRMAN, GERALDINE J.

— *See* PEISS, C. N.

FIELD, J. B. Hypoprothrombinemia induced in suckling rats, 1945, 143: 238

—, OVERMAN, R. S. and BAUMANN, C. A. Prothrombin activity in pregnancy and lactation, 1942, 137: 509

—, SPERO, L. and LINK, K. P. Hypoprothrombinemia, 1949, 159: 40

—, SPERO, L. and LINK, K. P. Prothrombin and fibrinogen deficiency in pups, 1951, 165: 188

FIELD, L.: *see* GREEN, D. M.

FIELD, N. S.: *see* WERTHESEN, N. T.

FIEST, S. M.: *see* ABRAMSON, D. I.

FILTRATE FACTOR

- deficiency, adrenal alterations in, 1944, 140: 715

FILTRATION

- across a vascular wall, 1944, 142: 671
- capillary permeability and, 1951, 167: 13

FINCH, E. M.: *see* LEE, R. H.

FINCH, G. Pilocarpine conditioning, 1938, 124: 679

— Salivary conditioned reflex and hunger, 1938, 123: 379

— Salivary conditioning in atropinized dogs, 1938, 124: 136

FINDLEY, T., JR. Excretion of endogenous creatinine by kidney, 1938, 123: 260

FINE, J.: *see* FRANK, E. D.

— *See* FRANK, H. A.

— *See* SELIGMAN, A. M.

FINERTY, J. C. DFP and frog muscle contraction, 1947, 151: 107

— and GESELL, R. Acid-humoral stimulation, 1945, 145: 1

— *See* BYRNES, W. W.

— *See* DEMPSTER, W. T.

— *See* KUPPERMAN, H. S.

FINGER

- arterial reactions to local cold, 1942, 136: 680
- index, potentials, in human subjects, 1946, 146: 404
- pad, changes in blood content and blood flow in skin of, 1947, 150: 126
- skin temperature, recording of, 1939, 125: 313
- vascular reactions to cold, 1942, 136: 669

FINGER TIP

- pulse and alpha waves, 1942, 136: 448
- spontaneous variations in volume, 1942, 136: 433
- variations in volume in hypertensive and senile subjects, 1942, 136: 451
- volume and variations in blood pressure, 1943, 138: 618
- water loss from skin, 1941, 132: 748

FINK, A.: *see* ROBBARD, S.

FINK, K. Thyroid of jejunal secretion in dog, 1944, 141: 598

— and NASSET, E. S. Sodium thiocyanate and intestinal secretion, 1944, 141: 590

FINK, R. D.: *see* WAKIM, K. G.

FINK, R. M. Fractionation of enterocrinin, 1943, 139: 633

— and NASSET, E. S. Physiological response to enterocrinin, 1943, 139: 626

FINKEL, A. J. and ALLEN, W. C. Traces of tin and rate of growth of fish, 1940, 130: 665

FINLEY, K. H.: *see* MORISON, R. S.

FISCH, S.: *see* UNDERWOOD, ELIZABETH

FISCHER, E. Birefringence and contractile power of muscle, 1940, 131: 156

— Denervated muscle atrophy and electrical stimulation, 1939, 127: 605

— and RAMSEY, VIRGINIA W. Changes of protein during muscular atrophies, 1946, 145: 571

— and RAMSEY, VIRGINIA W. Electrical stimulation and protein of denervated muscle, 1946, 145: 583

— *See* HUF, E. G.

FISH

- control of breathing by chemoreceptors, 1942, 138: 104

growth and fat and cholesterol, 1940, 129: 214

heart and hypothermia, 1951, 166: 94

kidney, as source of renin, 1942, 136: 733

liver, hemoglobin factors in, 1939, 126: 146

O₂ consumption and body temperature, 1951, 166: 99

phenol red transport in tubules, 1950, 161: 168

renal and vascular responses to adrenaline injection, 1939, 126: 347

respiration rate and body temperature, 1951, 166: 97

sodium flux through gills, 1951, 165: 580

x-ray diffraction studies of bones, 1945, 144: 632

FISHER, A. M.: *see* SCOTT, D. A.

FISHER, C., MAGOUN, H. W. and HETHERINGTON, A. W. Fluid exchange in diabetes insipidus, 1938, 121: 112

— *See* DEY, F. L.

FISHER, M. B.: *see* CONSOLAZIO, W. V.

FISHER, R. B.: *see* DAVENPORT, H. W.

FISHER, S.: *see* SHANNON, J. A.

- FISHGOLD, J. T., FIELD, J. and HALL, V. E. Antipyretic agents and body temperature, 1951, 164: 727
 —, GRANT, R., FIELD, J. and HALL, V. E. O₂ consumption of liver from febrile rabbits, 1951, 166: 113
- FISHLER, M. C.: *see* BOND, V. P.
 — *See* GOLDSCHMIDT, L.
- FISHMAN, A. P.: *see* MORALES, P. A.
 — *See* PREC, O.
- FISHMAN, W. H.: *see* LEVEEN, H. H.
- FISTULA
 arteriovenous, blood pressure changes in, 1951, 167: 426
 circulatory changes due to opening and closing of, 1949, 158: 103
 biliary, total, pathological findings after production of, 1945, 144: 629
 without bile therapy, 1945, 144: 626
 Eck, anaphylactic shock and, 1946, 146: 488
 formation and alloxan diabetes, 1951, 167: 193
 gastric, secretion in, 1947, 150: 378
 re-entrant, preparation of in dog, 1941, 135: 6
 Thiry, and intestinal distention, 1945, 144: 720
- FIZZELL, J. A.: *see* GOLSETH, J. G.
- FLANAGAN, J. B., DAVIS, A. K. and OVERMAN, R. R. Adrenals and extracellular sodium, 1950, 160: 89
- FLASHER, J. and DRURY, D. R. Nephrectomy and renal hypertension, 1949, 158: 438
 — and DRURY, D. R. Renin and renal hypertension, 1950, 162: 385
 —, DRURY, D. R. and SOBIN, S. Renal hypertension, 1949, 158: 433
 — *See* DRURY, D. R.
 — *See* GORDON, D. B.
- FLATUS
 composition of, 1948, 153: 475
- FLAVONOID: *see* VITAMIN P FLAVONOID
- FLEETWOOD, M. F. Nor-adrenaline and anxiety, 1951, 166: 314
- FLEISCHMANN, W., SHUMACKER, H. B., JR. and WILKINS, L. Thyroidectomy, serum cholesterol and basal metabolism, 1940, 131: 317
 — *See* STREICHER, E.
- FLEISHER, J. H.: *see* KAREL, L.
- FLEMISTER, L. J. Distribution of available water in animal body, 1942, 135: 430
- FLETCHER, JEAN P.: *see* WATERS, E. T.
- FLEXION REFLEX
 cord asphyxiation and, 1944, 142: 431
 pentobarbital and, 1947, 150: 547
- FLEXNER, L. B. Chemistry of cerebrospinal fluid in fetal life, 1938, 124: 131
 — and GELLHORN, A. Transfer of water and sodium to amniotic fluid, 1942, 136: 757
 — and POHL, H. A. Transfer of radioactive sodium across placenta, 1941, 132: 594; 1941, 134: 344
 — and ROBERTS, R. B. Placental permeability and fetal size, 1939, 128: 154
 —, VOSBURGH, G. J. and COWIE, D. B. Capillary permeability, 1948, 153: 503
 — *See* COWIE, D. B.
- *See* GELLHORN, A.
 — *See* POHL, H. A.
 — *See* VOSBURGH, G. J.
 — *See* WILDE, W. S.
- FLICKER FUSION FREQUENCY
 altitude tolerance, carboxyhemoglobin and, 1945, 145: 362
 for studying temperature sensation, 1941, 135: 21
- FLINK, E. B., HASTINGS, A. B. and LOWRY, JEANETTE K. Potassium and sodium in liver slices, 1950, 163: 598
- FLINKER, MARIE-LOUISE and MCCARRELL, JANE D. Anesthesia and lymph flow, 1948, 155: 50
- FLOCK, EUNICE V., BOLLMAN, J. L. and BERKSON, J. Thyroid and phospholipid, 1948, 155: 402
 —, CORWIN, W. C. and BOLLMAN, J. L. Sustained hyperlipemia of dietary origin, 1938, 123: 558
 — *See* BOLLMAN, J. L.
 — *See* NIX, J. T.
 — *See* OPPENHEIMER, M. J.
- FLOUNDER
 phenol red transport in tubules, 1950, 161: 168
- FLOW RESISTANCE: *see* CIRCULATION
- FLOWMETER
 electromagnetic, measure of blood flow, 1938, 122: 788
- FLUID
 administration of and volume of thoracic duct lymph, 1938, 122: 281
 analysis, from single nephrons, 1941, 134: 580
 collection from single glomeruli and tubules, 1941, 134: 562
 convection of, in endoneural spaces of nerves, 1945, 143: 521
 intake, during salt deficiency, 1951, 164: 410
 increased, sodium chloride and bicarbonate intake and, 1951, 164: 369
 loss in traumatic shock, 1944, 142: 494
 shifts during pressure breathing, 1948, 155: 208
 volume, determination with sodium thiocyanate, 1939, 125: 142
 osmometric equation for, 1948, 153: 499
 regulation, 1951, 167: 485
- FLUID CIRCUIT THEORY
 evidence for, 1941, 134: 37
- N-9-FLUORENYL-N-ETHYL-2 CHLORETHYLAMINE HCL
 inhibition of hyperglycemia with, 1951, 165: 68
- FLUORESCIN
 circulation time in traumatic shock, 1947, 148: 72
- FLUORIDES
 acetylcholine sensitivity of muscle, 1946, 145: 420
 muscle contraction, 1946, 145: 420
 Na, blocking of epinephrine cardioacceleration, 1950, 163: 492
 inhibition of P³² uptake, 1951, 164: 216
 O₂ consumption of frog muscle and, 1941, 135: 241
 toxicity of, compared to cryolite, 1939, 126: 714
 PAH accumulation in kidney slices, 1950, 161: 189
 radioactive, distribution in bones and teeth, 1941, 132: 707
 renal electrolyte metabolism and, 1951, 167: 208

FLUORIMETRIC METHOD

- for epinephrine and arterenol, 1950, 161: 268; 1951, 166: 304
- microscopic, to demonstrate vitamin A in retina, 1941, 134: 114

FLUOROACETATE

- methyl, brain dehydrogenases and, 1949, 157: 466
- inhibition of brain oxidation by, 1949, 157: 301
- respiration and nerve potential and, 1949, 157: 291
- Na, blocking of epinephrine cardioacceleration, 1950, 163: 492

- nerve conduction and O₂ consumption, 1950, 162: 458

- PAH accumulation in kidney slices, 1950, 161: 189
- renal electrolyte metabolism and, 1951, 167: 208

FLYNN, JEAN: *see* HEGNAUER, A. H.

FOÀ, P. P., WEINSTEIN, HARRIET R. and SMITH, J. A. Insulin and hyperglycemic substance, 1949, 157: 197

FOGELMAN, M. J. and IVY, A. C. Thiouracil and liver regeneration, 1948, 153: 397

FOGELSON, S. J. and BACHRACH, W. H. Response of Brunner's glands to secretin, 1939, 128: 121

FOGLIA, V. G.: *see* HOUSSAY, B. A.

— *See* SCOW, R. O.

FOLIC ACID

- blood regeneration, 1944, 142: 604
- bone marrow cells, 1948, 153: 497
- carbohydrate in diet, and excretion of, 1950, 162: 131
- cell proliferation, 1948, 153: 490
- cholinesterase activity of blood, 1948, 152: 309
- crystalline, and blood cellular elements, 1945, 144: 348
- deficiency, antifibrinolysis activity and, 1947, 150: 667
- hyperchromic anemia, 1946, 147: 409
- intestinal synthesis, 1947, 148: 94
- neoplastic cell culture, 1948, 153: 493
- of blood, 1947, 148: 320
- of blood of various species, 1947, 148: 320
- of body fluids during dietary restrictions in man, 1946, 147: 47
- of tissues, 1945, 144: 76
- of urine, blood and feces, on various diets, 1947, 148: 624
- temperature and requirement for, 1947, 149: 376

FOLK, B. P., ZIERLER, K. L. and LILIENTHAL, J. L., JR. Distribution of K and Na, 1948, 153: 381

— *See* EYZAGUIRRE, C.

FOLK, F.: *see* JOSEPH, N. R.

FOLK, G. E.: *see* BELDING, H. S.

FOLLANSBEE, ROBERTA. Osmotic activity of gastrointestinal fluids, 1945, 144: 355

FOLLICLE STIMULATING HORMONE: *see* GONADOTROPINS, pituitary

FOLLIS, R. H., JR. Biological effect of high frequency radio waves, 1946, 147: 281

— Effect of adding boron to a potassium-deficient diet, 1947, 150: 520

— Histological effects of Rb or Cs to a K-deficient diet, 1943, 138: 246

FOLLUTEIN: *see* GONADOTROPINS, chorionic

See page iii for guide to use of index

FOLTZ, E. E., IVY, A. C. and BARBORKA, C. J. Double work periods in study of fatigue, 1942, 136: 79

—, JUNG, F. T. and CISLER, LILLIAN E. Internal factors and work output and recovery, 1944, 141: 641

FOLTZ, E. L., PAGE, R. G., SHELDON, W. F., WONG, S. K., TUDDENHAM, W. J. and WEISS, A. J. Coronary blood flow and oxygen consumption, 1950, 162: 521

— *See* ECKENHOFF, J. E.

— *See* HORVATH, S. M.

FOMON, S. J.: *see* KAPLAN, S. A.

FOOD: *see* DIET

FOOD CONSUMPTION

- adrenal insufficiency and, 1941, 135: 58
- amphetamine and, 1948, 153: 259
- atropine and, 1949, 157: 149
- concentration of calories and, 1949, 158: 184
- during pregnancy and lactation, 1938, 123: 594
- factors affecting, 1947, 151: 117; 1949, 159: 143
- frequency, rectal temperatures, and exposure to colds, 1946, 146: 87
- gold thioglucose and, 1950, 162: 428
- growth-depressing action of estrogens and, 1949, 159: 281
- heart rate in rat and, 1940, 128: 610
- hypothalamic lesions and, 1942, 136: 612
- hypothalamic obesity, 1946, 147: 735
- exercise and, 1946, 147: 710
- O₂ consumption and food-feces ratio in, 1946, 147: 717
- respiratory quotient in, 1946, 147: 727
- in hyperthyroidism, vitamin B₁ and, 1941, 132: 629
- insulin and, 1947, 149: 100
- intravenous glucose and, 1949, 156: 87
- longevity, 1947, 148: 615
- nutritive density and, 1949, 158: 184
- of animals given corn syrup and thiamin, 1945, 145: 111
- parathyroid tetany and, 1938, 122: 722
- parenteral administration of glucose and protein and, 1948, 155: 28
- regulation, 1951, 164: 182
- seasonal changes in, 1945, 143: 429
- serum albumin metabolism and, 1943, 138: 658
- thyroidectomy and thiouracil and, 1946, 146: 440
- thyroxin and, 1947, 150: 336
- vitamin B complex and, in hyperthyroid rats, 1938, 124: 683

FOOT

- free body diagram, 1939, 125: 341

FORBES, A. P.: *see* MOREIRA, M. F.

FORBES, H. S., SCHMIDT, C. F. and NASON, GLADYS, I. Vasodilator innervation in parietal cortex, 1939, 125: 216

FORBES, W. H., DILL, D. B. and HALL, F. G. Effect of climate on blood and tissue fluid volumes, 1940, 130: 739

—, SARGENT, F. and ROUGHTON, F. J. W. Carbon monoxide uptake by man, 1945, 143: 594

— *See* DILL, D. B.

— *See* METHENY, ELEANOR

- See ROUGHTON, F. J. W.
- FORCE VELOCITY CURVE
of human arm, 1947, 151: 434
- FOREARM: *see* ARM
- FOREBRAIN
influence on electrocorticogram, 1943, 139: 410
stimulation and cessation of walking, 1951, 167: 130
- FOREHEAD
absence of vasoconstrictor reflexes in, 1942, 136: 692
- FORELIMB: *see* LIMBS
- FOREMAN, R. C. *see* OPDYKE, D. F.
- FORMALDEHYDE
induction of pseudopregnancy with, 1951, 167: 589
- FORMALIN
hormones of pregnancy urine, 1940, 128: 427
pituitary hormones, 1939, 127: 497
- FORSTER, A. C.: *see* MAISON, G. L.
- FORSTER, F. M. Arterial response to intracranial hypertension, 1943, 139: 347
- and MADOW, L. Acetylcholine and cerebral cortex, 1950, 161: 426
- and MADOW, L. Acetylcholine and epilepsy, 1950, 161: 430
- and McCARTER, R. H. Spread of ACh-induced electrical discharges in cortex, 1945, 144: 168
- , HELM, J. D., JR. and INGELFINGER, F. J. Electric potentials of human small intestine, 1943, 139: 433
- FORSTER, R. E., II, FERRIS, B. G., JR. and DAY, R. Heat exchange and blood flow in the hand, 1946, 146: 600
- *See* FERRIS, B. G., JR.
- FORSTER, R. P. Frog renal hemodynamics, 1943, 140: 221
- Renal function in the rabbit, 1947, 150: 523
- and MAES, J. P. Pressure-flow studies on renal circulation, 1947, 150: 534
- *See* TAGGART, J. V.
- FORTIER, C. and SELYE, H. Neuroregulation of ACTH release, 1949, 159: 433
- , YRARRAZAVAL, S. and SELYE, H. ACTH regulation, 1951, 165: 466
- FOSTER TEST
insomnia and, 1942, 138: 66
- FOSTER, FRANCES I. *see* Reynolds, S. R. M.
- FOSTER, M. A. Differential action of gonadotropic hormones, 1938, 121: 633
- and FEVOLD, H. L. Interrelationship of gonadotropic hormones, 1938, 121: 625
- *See* FRIEDGOOD, H. B.
- FOSTER, R. H. K. Heparin and optical density of clotted plasma, 1948, 152: 577
- FOSTER, R. J.: *see* VAN HARREVELD, A.
- FOSTER, W. C.: *see* CAVETT, J. W.
- FOULKS, J.: *see* MUDGE, G. H.
- FOURTH VENTRICLE
floor of, application of drugs to, 1938, 123: 766
- FOVEA: *see* RETINA
- FOWELL, D. M.: *see* HAMILTON, W. F.
- FOWLER, J. L. A. and CLEGHORN, R. A. Action of pressor substances after adrenalectomy, 1942, 137: 371
- *See* CLEGHORN, R. A.
- FOWLER, W. S. Respiratory dead space, 1948, 154: 405
- FOWLER'S SOLUTION: *see* ARSENITE
- FOX
vitamin A reserves, 1938, 123: 695
- FOX, C. L., JR. and BAER, H. Redistribution of K, Na and H₂O in shock, 1947, 151: 155
- *See* OTTENBERG, R.
- FOX, S.: *see* RHOADS, J. E.
- FRACTURE
urinary N.P.N. in healing, 1947, 149: 511
- FRAENKEL-CONRAT, H. L., HERRING, V. V., SIMPSON, MIRIAM E. and EVANS, H. M. Pituitary hormones and insulin content of pancreas, 1942, 135: 404
- , SIMPSON, MIRIAM E. and EVANS, H. M. Action of pituitary on arginase, 1943, 138: 439
- , SIMPSON, MIRIAM E. and EVANS, H. M. Pituitary hormones and liver weight, 1942, 135: 398
- *See* FRAENKEL-CONRAT, JANE
- FRAENKEL-CONRAT, JANE, FRAENKEL-CONRAT, H. L. and EVANS, H. M. Hormones and N.P.N., 1942, 137: 200
- FRANCIS, L. D. and STRONG, L. C. Effects of age, diet and strain on hemoglobin of mice, 1938, 124: 511
- FRANK, C. W.: *see* BLAKE, W. D.
- *See* WÉGRIA, R.
- FRANK, E. D., FRANK, H. A. and FINE, J. Fibrinogen in hemorrhagic shock, 1950, 162: 619
- , FRANK, H. A. and FINE, J. Traumatic shock, 1951, 167: 499
- FRANK, H. A., GLOTZER, P., JACOB, S. W. and FINE, J. Traumatic shock, 1951, 167: 508
- *See* FRANK, E. D.
- *See* SELIGMAN, A. M.
- FRANKE, R. E. *see* LILIENTHAL, J. L., JR.
- *See* RILEY, R. L.
- FRANKEL, D. B. and WAKERLIN, G. E. Excretion of urinary antidiuretic in hypertension, 1943, 138: 465
- FRANKSTON, JANE E.: *see* ALBANESE, A. A.
- FRANSEEN, ELIZABETH B. and HELLEBRANDT, FRANCES A. Postural changes in respiration, 1943, 138: 364
- FRACIER, W. D.: *see* RHOADS, J. E.
- FREED, S. C. and LINDNER, E. Capillary response to adrenal and ovarian steroids, 1941, 134: 258
- *See* FRIEDMAN, M.
- *See* SHLESER, I. H.
- FREEDMAN, A.: *see* HORVATH, S. M.
- FREEDMAN, A. M. and HIMWICH, H. E. Age and lethality of DFP, 1948, 153: 121
- and HIMWICH, H. E. Variation in response to DFP, 1949, 156: 125
- and KABAT, H.: Pressor response to adrenaline in traumatic shock, 1940, 130: 620
- , BALES, P. D., WILLIS, ALICE and HIMWICH, H. E. Production of convulsive patterns, 1949, 156: 117
- , WILLIS, ALICE and HIMWICH, H. E. DFP and cholinesterase, 1949, 157: 80
- FREEDMAN, H. *see* FREEMAN, N. E.

- FREEMAN, L. W. and JOHNSON, V. Hemolytic action of chyle, 1940, 130: 723
- , LOEWY, A. and JOHNSON, V. In vivo hemolysis produced by soap injection, 1944, 140: 556
- See LOEWY, A.
- FREEMAN, M. E.: see ELSTER, S. K.
- FREEMAN, N. E. and JEFFERS, W. A. Progressive sympathectomy and hypertension, 1940, 128: 662
- and WALLACE, W. McL. Plasma volume after injection of concentrated serum, 1938, 124: 791
- , FREEDMAN, H. and MILLER, C. C. Shock resulting from prolonged adrenaline injection, 1941, 131: 545
- See SCHACTER, A. E.
- FREEMAN, S. Hepatectomy and serum phosphatase, 1951, 164: 792
- Liver circulation and function, 1949, 159: 351
- and CHANG, T. S. Citric acid and nephrectomy, 1950, 160: 335
- and CHANG, T. S. Thyroparathyroidectomy and nephrectomy, 1950, 160: 341
- and IVY, A. C. Antacids and iron retention in anemia, 1942, 137: 706
- and SVEC, MURIEL H. Hepatectomy and amino acids, 1951, 167: 201
- See BUSSABARGER, R. A.
- See CHANG, T. S.
- See HOUGH, V. H.
- See IVY, J. H.
- See KOIDE, S.
- See KOSMAN, A. J.
- See LI, T-W.
- See MONAHAN, E. P.
- See SVEC, MURIEL H.
- FREEMAN, W.: see JOHNSON, V.
- FREEZING
- acetylcholine in brain and, 1951, 165: 366
- brain dehydrogenases and, 1949, 157: 465
- excitability of nerve and muscle, 1949, 156: 333
- FREINKEL, N.: see SCHACTER, D.
- FREIS, E. D., STANTON, J. R. and EMERSON, C. P. Circulation velocity, 1949, 157: 153
- FRENCH, C. E.: see BERRYMAN, G. H.
- FRENCH, C. R.: see BRAND, E. D.
- See BRITTON, S. W.
- FRENCH, D. M., MOLANO, P. A. and BOOKER, W. M. Renal function and intra-abdominal pressure, 1951, 167: 241
- See BOOKER, W. M.
- FREY, JEANE S.: see GESELL, R.
- FREYBURGER, W. A., GRUHZIT, C. C. and MOE, G. K. Pressor pathways not blocked by TEA, 1950, 163: 290
- , GRUHZIT, C. C., RENNICK, BARBARA R. and MOE, G. K. TEA and asphyxial pressor response, 1950, 163: 554
- FREYTAG, RUTH M.: see HENDRICKS, JEANNETTE B.
- FRIDAY, S. J.: see RING, G. C.
- FRIEDBERG, L. and KATZ, L. N. Shock after venous occlusion of hind-limbs of dog, 1945, 143: 589
- See KATZ, L. N.
- FRIEDEL, H. L.: see KEYS, A.
- FRIEDENWALD, J. S. and BUSHCKE, W. Cyanide and other substances in action of epinephrine, 1943, 140: 367
- and BUSCHKE, W. Mitotic activity of the corneal epithelium, 1944, 141: 689
- FRIEDGOOD, C. E., VARS, H. M. and ZERBE, JOAN W. Adrenalectomy and liver regeneration, 1950, 163: 354
- See ROGERS, C. S.
- FRIEDGOOD, H. B. Induction of estrous behavior in anestrus cats, 1939, 126: 229
- and BEVIN, S. Cervical sympathetic stimulation and basal metabolism, 1939, 125: 153
- and FOSTER, M. A. Adrenal glands and ovulation, 1938, 123: 237
- , BEVIN, S. and UOTILA, U. U. Augmentation of thyrotropic hormone activity, 1940, 129: 724
- FRIEDLAND, C. K.: see KAPP, F.
- FRIEDLANDER, H. D. and WILDE, W. S. Exchange rate from urine isotopes, 1951, 164: 159
- , PERLMAN, I. and CHAIKOFF, I. L. Phospholipid activity of denervated muscle, 1941, 132: 24
- FRIEDMAN, A.: see WEISBERG, H. F.
- FRIEDMAN, B., ABRAMSON, D. I. and MARX, W. Pressor substance in cortex of kidney, 1938, 124: 285
- , SOMKIN, E. and OPPENHEIMER, ENID T. Relation of renin to the adrenal gland, 1940, 128: 481
- FRIEDMAN, CONSTANCE L.: see FRIEDMAN, S. M.
- FRIEDMAN, E. W. and WEINER, R. S. Estimation of venous pressure, 1951, 165: 527
- FRIEDMAN, G. J.: see SHERRY, S.
- FRIEDMAN, GERTRUDE S.: see FRIEDMAN, M. H.
- FRIEDMAN, I. and MATTILL, H. A. Oxygen consumption of E-deficient muscle, 1941, 131: 595
- FRIEDMAN, M. Creatinine, inulin, hippurate clearance in rat, 1947, 148: 387
- Uric acid and allantoin, 1948, 152: 302
- and BYERS, S. O. ACTH and excretion of urate, 1950, 163: 684
- and BYERS, S. O. Allantoin clearance in rat and dog, 1947, 151: 192
- and BYERS, S. O. Sodium salicylate and uric acid clearance, 1948, 154: 167
- , BYERS, S. O. and ABRAHM, P. M. Clearance of allantoin, 1948, 155: 278
- , BYERS, S. O. and MICHAELIS, F. Bile acids in the rat, 1951, 164: 786
- , BYERS, S. O. and MICHAELIS, F. Characteristics of rat bile, 1950, 162: 575
- , BYERS, S. O., and MICHAELIS, F. Production of cholesterol in mammals, 1951, 164: 789
- , KRUGER, H. E. and KAPLAN, A. Renin and blood pressures, 1942, 137: 570
- , ROSENMAN, R. H. and FREED, S. C. Potassium deprivation and hypertension, 1951, 167: 457
- , SELZER, A. and SAMPSON, J. J. Pressor substance in ischemic kidney blood, 1941, 131: 799
- , SUGARMAN, H. and SELZER, A. Renal blood flow and pressure in hypertension, 1941, 134: 493
- See BYERS, S. O.

- See KAPLAN, A.
 — See SUGARMAN, J.
- FRIEDMAN, M. H. and FRIEDMAN, GERTRUDE S. Diet and gonadotropic content of pituitary, 1940, 128: 493
- and FRIEDMAN, GERTRUDE S. Gonadotropic extracts from green leaves, 1939, 125: 486
- FRIEDMAN, M. H. F., PINCUS, I. J., THOMAS, J. E. and REHFUSS, M. E. Acid in intestine and pepsin secretion, 1944, 140: 708
- See BEAMER, W. D.
- FRIEDMAN, MARIAN: see MILLER, ZELMA B.
- FRIEDMAN, S. M. and LIVINGSTONE, CONSTANCE A. Diodrast and inulin in estimation of renal function, 1942, 137: 564
- , FRIEDMAN, CONSTANCE L. and CAMPBELL, C. G. Adrenals and DCA hypertension, 1949, 157: 241
- , FRIEDMAN, CONSTANCE L. and NAKASHIMA, M. Cortisone and desoxycorticosterone acetate, 1950, 163: 319
- , FRIEDMAN, CONSTANCE L. and POLLEY, J. R. Hypertension and DCA, 1948, 153: 226
- , POLLEY, J. R. and FRIEDMAN, CONSTANCE L. Clearance of inulin and sodium P-aminohippurate, 1947, 150: 340
- FRIES, E. CORRINE: see HELLEBRANDT, FRANCES A.
- FRITZ, I. and LEVINE, R. Adrenal cortical steroids and vascular responses, 1951, 165: 456
- FROG
- blood vessels, capillary endothelium, local cooling, and 1947, 149: 302
- capillary permeability of perfused, 1946, 146: 131
- critical closure, 1951, 164: 330
- smooth muscle motor-units, 1942, 135: 533
- cerebellar and medullary pathways, 1939, 127: 232
- edema and available O₂, 1938, 124: 360
- effect of acetylcholine and eserine, 1939, 127: 470
- epinephrine on potassium balance of the hind legs, 1941, 132: 11
- 933F and sympathin, 1938, 124: 62
- thyroxine and cocarboxylase, 1942, 135: 464
- electrocardiogram, 1942, 137: 442
- exchange of radioactive and body potassium, 1941, 135: 153
- gastric secretion in vitro, 1941, 134: 27
- gastric urease, 1950, 163: 386; 1951, 165: 688
- heart, acetylcholine and, 1946, 145: 480
- adrenaline, heavy water and, 1940, 129: 666
- adrenergic fiber extracts, 1939, 125: 778
- calcium and sympathin output, 1938, 123: 256
- dynamics, 1940, 128: 711
- epinephrine acceleration, 1950, 163: 484
- hypothermia and, 1951, 166: 94
- on antagonism and, 1942, 136: 351
- ions and, 1940, 130: 730
- membrane resting and action potentials, 1942, 137: 442; 1951, 164: 307
- nomogram for contractility, 1951, 165: 525
- O₂ poisoning, 1939, 126: 191
- piperido-methyl-3-benzodioxane and, 1939 126: 306
- thiamine triphosphoric acid and, 1949, 158: 280
- thyroxine and cocarboxylase and, 1942, 135: 464
- various substances and rate, 1940, 129: 295
- water moccasin venom and, 1940, 130: 615
- intestinal absorption, 1947, 150: 150
- intracranial novocain anesthesia, 1948, 154: 80
- kidney, ammonia formation, 1940, 131: 187
- epinephrine and, 1943, 140: 224
- excretion of phosphate, 1951, 164: 662
- glomerular circulation in, 1951, 164: 457
- tubular secretion of inulin in, 1938, 123: 281
- tubular secretion of phenol red, 1950, 161: 259
- liver, hemoglobin production, 1939, 126: 145
- muscle, acetylcholine, excitability and, 1938, 124: 372
- acetylcholine hydrolysis, 1940, 130: 281
- action potentials, 1942, 135: 679
- alloxan and glycolysis 1947, 150: 614
- conduction over a quiescent area, 1938, 122: 27
- DFP and contraction, 1947, 151: 107
- excitability after deep-freezing, 1949, 156: 333
- exercise and, 1938, 122: 572
- extracellular fluid, 1938, 124: 546
- fatigue and solubility of myosin, 1947, 149: 177
- high O₂ tension and, 1947, 148: 491
- isotonic glucose and, 1948, 154: 455
- metabolism, 1938, 122: 390
- metabolism of phosphorus, 1942, 137: 750
- O₂ consumption, 1939, 126: 196
- phosphate in lead poisoning, 1939, 126: 264
- phosphorus fractions, 1939, 126: 391
- potential distribution, 1938, 121: 250
- refractory period and summation, 1939, 128: 203
- sodium extrusion, 1951, 167: 284
- substances affecting response to acetylcholine, 1946, 147: 384
- temperature and twitch potentiation, 1949, 157: 432
- work output of perfused, 1944, 142: 268; 1944, 142: 274
- nerve, acetylcholine and adrenaline from isolated, 1939, 127: 264
- anoxia and peripheral, 1946, 147: 78
- asphyxia and peripheral conduction, 1947, 148: 174
- barbiturates and vagus, 1940, 129: 15
- carbamate conduction block, 1948, 155: 82
- excitability and CO₂ tension, 1938, 122: 275
- excitability of after deep-freezing, 1949, 156: 333
- fibers of slowest conduction, 1938, 123: 299
- fluoroacetate and respiration, 1949, 157: 291
- optic response to retinal illumination, 1938, 121: 400
- respiration and conduction, 1950, 163: 197
- resting potential, 1948, 153: 93
- spatial summation in retina and optic response, 1940, 130: 700
- strychnine and excitability, 1941, 134: 705
- survival of reflexes after somatic death, 1947, 148: 299

FROG

- nerve, temperature and response, 1941, 134: 694
 vestibular reflexes after VIII nerve section, 1945, 144: 735
 neuromuscular, acid-humoral mediation, 1944, 142: 131
 nitrogen narcosis in, 1951, 166: 699
 O₂ consumption and body temperature, 1951, 166: 99
 O₂ consumption of retina, 1943, 139: 13
 O₂ debt in tissues, 1939, 127: 281
 permeability of red cells to radioactive potassium, 1941, 135: 93
 pregnancy test, 1950, 163: 294
 respiration rate and body temperature, 1951, 166: 97
 shock in, 1948, 155: 92
 due to electrical injury, 1948, 154: 38
 skin, electrical potential, 1940, 130: 557
 permeability, 1950, 162: 193
 salt and water uptake, 1951, 167: 255
 summer, iodine uptake by thyroid 1950, 162: 590
 temperature and x-ray injury, 1948, 155: 388
 water balance, 1943, 140: 20
 pituitary and, 1938, 124: 761; 1939, 125: 415; 1940, 129: 647; 1942, 136: 42; 1949, 157: 412; 1950, 163: 364
 weight and posterior hypophysis extract, 1938, 122: 191
 x-ray diffraction pattern of tendon, 1945, 144: 634
- FRONTAL LOBECTOMY**
 blood sugar, 1947, 149: 249
 olfactory conditioned reflexes, 1940, 128: 764
- FRONTAL LOBES**
 excitability of hypothalamus, 1938, 122: 530
 lesion of, and activity, 1939, 126: 160
 olfactory conditioned reflexes and, 1940, 128: 754
- FROST-BITE**
 treatment of, and blood vessels, 1947, 149: 149
- FROST, D. V., SPITZER, E. H., ELVEHJEM, C. A. and HART, E. B.** Effects of cobalt and liver on blood building, 1941, 134: 746
 — See LAMBERT, G. F.
- FRUCTOSE**
 conversion to pentose, 1950, 162: 421
 fecal excretion of vitamins, 1950, 162: 131
 feeding, and nitrogen excretion, 1947, 150: 391
 heat production from, in monkey, 1944, 141: 253
 kidney as locus of metabolism, 1944, 141: 669
 metabolism, in brain, 1939, 125: 603
 in eviscerated rat, 1942, 136: 168
 nutritive value, 1948, 154: 499
 R.Q., 1944, 141: 250
 urinary constituents, 1938, 124: 79
- FRUCTOSE-PHOSPHATE:** see HEXOSE PHOSPHATES
- FRY, EDITH G.:** see SHIPLEY, R. A.
- FRYE, C. M.:** see COLBY, R. W.
- FSH:** see GONADOTROPINS, pituitary
- FUGITT, C. H.:** see LILIENTHAL, J. L., JR.
- FUHRMAN, F. A.** Metabolism and potassium deficiency, 1951, 167: 314

- Muscle electrolytes and thiopental, 1951, 167: 298
- and CRISMON, J. M. Acute hypothermia, 1947, 149: 552
- and CRISMON, J. M. Muscle electrolytes and tourniquets, 1951, 166: 424
- and CRISMON, J. M. Muscle electrolytes following ischemia, 1951, 167: 289
- and FIELD, J. Reversibility of effects of cold on isolated tissues, 1943, 139: 193
- FUHRMAN, GERALDINE J. and FIELD, J. O₂ consumption of tissues after acute anoxic anoxia, 1945, 144: 87
- WATSON, J. L. and CRISMON, J. M. Electrolytes following sphere injection, 1951, 167: 305
- See CRISMON, J. M.
- See FUHRMAN, GERALDINE J.
- See TURNER, R. S.
- FUHRMAN, GERALDINE J. and WEYMOUTH, F. W.** Dinitrophenol and oxygen consumption, 1946, 147: 527
- , FUHRMAN, F. A. and FIELD, J. Metabolism of rat heart slices, 1950, 163: 642
- , MCCLIN, E. D. and TURNER, MARGARET L. Variations of metabolic rate of mouse during day, 1946, 147: 284
- See FUHRMAN, F. A.
- FULLER, J. L.** Genetic variability, 1951, 166: 20
- , EASLER, CLARICE A. and BANKS, E. M. Conditioned responses in young puppies, 1950, 160: 462
- FULTON, G. P. and LUTZ, B. R.** Smooth muscle motor-units in small blood vessels, 1942, 135: 531
- FULTON, M. N.:** see WATKINS, A. L.
- FUMARATE**
 as substrate for perfused rat heart, 1949, 158: 272
 blood coagulation, 1940, 130: 576
 therapy in shock, 1944, 142: 299
- FUNG, F. H.:** see NEWELL, G. W.
- FUR**
 distribution of radioactive iodine in, 1941, 132: 348
- FURCHGOTT, R. F. and SHORR, E.** Anoxic smooth muscle, 1950, 162: 88
- and WALES, MARILYN. PH and smooth muscle activity, 1951, 167: 386
- FUTCHER, P. H.:** see KRISS, J. P.

G FORCES: see ACCELERATION

- G-D 52:** see N-BENZYL-N-ETHYL- β -CHLOROETHYL-AMINE
- G-D 218:** see N-o-METHYLPHENOXYETHYL-N-BENZYL- β -CHLOROETHYLAMINE
- GABRIELSON, M. A.:** see ROTH, GRACE, M.
- GAD'S INDEX**
 measure of motor discharge to inspiratory muscles, 1941, 132: 571
- GAEBLER, O. H. and ZIMMERMAN, W. J.** Pituitary and phlorhizin diabetes, 1939, 128: 111

- , BARTLETT, P. D. and SWEENEY, M. J. Growth hormone and nitrogen storage, 1951, 165: 486
- GAGGE, A. P. Physical properties of environment and heat loss, 1940, 131: 93
- , WINSLOW, C.-E. A. and HERRINGTON, L. P. Clothing and bodily reactions to temperature, 1938, 124: 30
- See WINSLOW, C.-E. A.
- GAINES, W.: see WAKERLIN, G. E.
- GALACTOSE
absorption from gastro-intestinal tract, 1938, 123: 578
disappearance from plasma, 1944, 141: 368
distribution, 1950, 163: 70
fecal excretion of vitamins, 1950, 162: 131
heat production from, in monkey, 1944, 141: 253
permeability of cells to, and insulin, 1950, 163: 70
renal excretion of, 1944, 141: 372
R.Q., 1944, 141: 250
survival on pure diet of, 1946, 147: 13
utilization, 1944, 141: 377
- GALAMBOS, R.: see KAHANA, L.
- GALAPEAUX, E. A., TEMPLETON, R. D. and BORKON, E. L. Bile and motility of colon, 1938, 121: 130
— See PATRAS, MARY C.
- GALDSTON, M. and HORWITZ, S. A. Respiratory dead space, 1948, 155: 420
— and STEELE, J. M. Coarctation and pulse wave, 1948, 152: 554
— and WOLLACK, A. C. Alveolar O₂ and CO₂ tensions in man, 1947, 151: 276
- GALL BLADDER
cholecystokinin and, 1938, 124: 379
function, in pregnant guinea pig, 1942, 135: 349
lymph drainage, 1941, 133: 80
obstructed, absorption from, 1940, 129: 703
- GALLIC ACID
blood coagulation and, 1940, 130: 576
- GALLUP, W. D.: see DINNING, J. S.
- GALVÃO, P. E. Heat production, weight and body surface, 1947, 148: 478
- GANGLION CELL
limulus heart nerve, 1939, 125: 187
- GANGRENE
following exposure to cold air, 1950, 161: 89
- GANTI, W. H.: see KATZENELBOGEN, S.
- GARAND, N. D.: see BOYD, E. M.
- GARB, S. Contractile force and irritability, 1951, 164: 234
— and CHENOWETH, M. B. Papillary electrograms, 1949, 156: 27
- GARBER, E. E.: see KOCHAKIAN, C. D.
- GARCIA, JUANITA P.: see CHATFIELD, P. O.
- GARDNER, E. Articular reflexes, 1950, 161: 133
— Sensory fibers from the cat knee joint, 1948, 152: 436
— and JACOBS, J. Joint reflexes and respiration, 1948, 153: 567
—, LATIMER, F. and STILWELL, D. Central connections of articular fibers, 1949, 159: 195
- GARDNER, J. W. and BURGET, G. E. Calcium and potassium in intestinal absorption, 1938, 121: 475
- GARDNER, L. I., WESTERFELD, W. W. and WEISIGER, J. R. Callicrein inactivators, 1944, 142: 541
- GARFIELD, M. M.: see BYERS, S. O.
- GARLIC
renal hypertension and, 1940, 130: 570
- GARREY, W. E. Acetylcholine and cardiac ganglion of limulus, 1942, 136: 182
— and TOWNSEND, S. E. Neural responses of embryonic heart, 1948, 152: 219
— See HIATT, E. P.
- GAS
measurement, in digestive tract, 1947, 149: 692
- GASC, V.: see BORSON, H. J.
- GASPING: see RESPIRATORY FAILURE, and GASPING PATTERN
- GASPING PATTERN
circulation and, 1944, 142: 721.
glucose and, 1944, 141: 299
- GASS, S. R.: see BEYER, K. H.
- GASSER, H. S. Recruitment of nerve fibers, 1938, 121: 193
— and GRUNDFEST, H. Axon diameters and conduction velocity, 1939, 127: 393
—, RICHARDS, C. H. and GRUNDFEST, H. Nerve fibers of slowest conduction in frog, 1938, 123: 299
— See GRUNDFEST, H.
- GASSNER, F. X.: see KOENIG, V. L.
- GASTEIGER, E. L.: see CAMPBELL, B.
- GASTRECTOMY: see STOMACH, removal
- GASTRIC ACIDITY
body bath temperature and, 1940, 131: 195
calcium in gastric mucus and, 1942, 135: 496
low, experimental production of, 1950, 161: 413
- GASTRIC ANALYSIS
by dilution indicator technique, 1940, 131: 470
fluid absorption and, 1940, 131: 470
following experimental burns, 1946, 145: 487
- GASTRIC EVACUATION
fats and, 1941, 134: 132; 1947, 150: 461
glucose ingestion and, 1945, 144: 609; 1946, 146: 610
heat and, 1944, 141: 206
starch and, 1947, 148: 297
- GASTRIC JUICE: see GASTRIC SECRETION
- GASTRIC MOTILITY
hydrolised protein in intestine and, 1939, 126: 29
test diet and, 1947, 149: 107
various substances and vagotomized stomach, 1947, 148: 340
- GASTRIC MUCIN
secretion in response to sham-feeding and histamine stimulation, 1949, 158: 194
- GASTRIC MUCOSA: see STOMACH
- GASTRIC MUCUS
calcium in, 1942, 135: 499
- GASTRIC POTENTIAL: see STOMACH, ACTION POTENTIAL
- GASTRIC SECRETION
acetylcholine in, 1938, 122: 631

GASTRIC SECRETION

- acidity and buffer value of, 1941, 132: 467
- aluminum hydroxide gel, 1944, 141: 256
- anesthesia, 1949, 156: 248
- anoxia, 1939, 127: 637
- anti-histaminics, 1943, 138: 341
- antrum resection, 1950, 162: 99
- caffeine, 1944, 141: 454
- canine, proteins of, 1951, 165: 1
- choline and, 1938, 122: 119
- composition, 1947, 150: 755
 - rate of excretion and, 1941, 133: 543
- conditioned reflex to histamine, 1939, 128: 10
- drugs and, 1947, 149: 162
 - and pepsin content, 1950, 163: 29
- electrical potential, 1947, 149: 90
- flow and response to histamine, 1948, 153: 242
- HCl during electric current flow, 1945, 144: 118
- histamine of, 1947, 151: 593
 - HCl and, 1944, 141: 538
 - urogastrone injection on fistula dogs and, 1947, 150: 377
 - urogastrone on pouch dogs and, 1947, 150: 378
- hormonal mechanism for, 1948, 153: 1
- in vitro, and inorganic ion, 1941, 134: 27
 - production of acid, 1940, 130: 327
- inhibition by calcium salts, 1941, 132: 462
 - by histaminase, 1948, 153: 447
 - by thiocyanate, 1940, 129: 507
- intestinal phase, 1944, 141: 614
- lack of rennin in human adult, 1943, 138: 557
- liver extract and, 1943, 139: 325
- mechanism of acid formation, 1940, 131: 165
- mucoproteins of, 1950, 162: 136
- mustard oil and, 1947, 149: 724
- neurine and, 1943, 139: 364
- osmotic pressure and rate of excretion, 1941, 133: 545
- pedicle jejunal grafts and, 1944, 141: 76
- pepsin of hormonal stimulated, 1944, 141: 506
- pilocarpine and, 1943, 140: 138
- plasma urea as source of ammonium ion, 1951, 165: 695
- pylorectomy, 1950, 163: 38
- pyrexia, 1950, 160: 567
- response to histamine and caffeine, 1944, 142: 109
 - to histamine and histaminase, 1941, 132: 51
- saline washings of jejunum, 1943, 140: 288
- salt, 1947, 151: 380
- sodium bicarbonate, 1943, 139: 357
- thiocyanate, 1945, 144: 701
- total acid, and neutral chlorides of, 1941, 132: 504
- trauma and traumatic shock, 1942, 136: 33
- urogastrone, 1942, 137: 419
- yeast extract, 1940, 131: 378

GASTRIC ULCERS: *see* ULCERS

GASTRIN

- release by acetylcholine, 1950, 163: 27

GASTROCNEMIUS MUSCLES

- B complex deficiency and, water content, 1944, 141: 85

- phosphorus compounds in, with advancing age, 1945, 145: 79

- potential distribution in, 1938, 121: 250
- radioactive chlorine in, 1941, 134: 83

GASTROCNEMIUS PLANTARIS MUSCLES

- segmental innervation, 1943, 138: 773

GASTROINTESTINAL MOTILITY

- bile and, 1941, 134: 32
- carmine and, 1939, 126: 77
- drugs and, 1941, 132: 299
- gradient following hemorrhage, 1946, 146: 454
- hemorrhage and, 1946, 146: 449
- in guinea pig, 1948, 152: 455
- in traumatic shock, 1942, 136: 35
- origin and extent of, 1941, 132: 297
- potassium deficiency and, 1951, 164: 263
- stimulation and, 1940, 130: 81
- transportation in colon and, 1940, 128: 517

GASTROINTESTINAL TRACT: *see* ALIMENTARY TRACT

- GAUDINO, M. and LEVITT, M. F. Inulin space, 1949, 157: 387

— *See* LEVITT, M. F.

- GAUNT, R. and HAYS, H. W. Survival of pseudo-pregnant adrenalectomized ferret, 1938, 124: 767

— *See* EVERSOLE, W. J.

— *See* LILING, MILDRED

— *See* SCHWEIZER, MALVINA

- GAZES, P. C.: *see* WALTON, R. P.

- GEIGER, A. and MAGNES, J. Isolation of cerebral circulation in living cat, 1947, 149: 517

- GEIGER, A. J.: *see* CALABRESI, M.

- GEISSMAN, T. A.: *see* CRESCITELLI, F.

GELATIN

- as plasma substitute, 1944, 141: 335
- capillary permeability, 1943, 138: 495
- creatinine-creatinine excretion, 1941, 133: 520
- disappearance of intravenous, 1943, 139: 438
- diuretic effect of solutions, 1944, 142: 248
- ingestion, and muscle phosphocreatine, 1943, 138: 254
- injection of, plasma volume, blood constituents and, 1944, 140: 637
- method for determination in urine, 1943, 139: 438
- muscular work and, 1941, 133: 163; 1941, 134: 301
- of urine, 1943, 139: 439
- renal hypertension and, 1950, 162: 370
- strength and fatigability of muscle, 1940, 131: 426
- therapy in traumatic shock, 1943, 140: 200
 - in wound shock, 1944, 141: 713
- value after hemorrhage, 1943, 140: 431

GELATIN SOLUTION

- blood volume after hemorrhage and, 1945, 144: 204
- hemorrhagic shock and, 1945, 144: 217
- infusion of, in burn shock, 1947, 150: 432

- GELFAN, S., NIMS, L. F. and LIVINGSTONE, R. B. Decompression at high altitude, 1950, 162: 37

— *See* ALLISON, J. B.

- GELLER, H. M.: *see* LEVINE, H.

- GELLHORN, A. and FLEXNER, L. B. Transfer of water across placenta, 1942, 136: 750

—, MERRELL, MARGARET and RANKIN, R. M.

- Transcapillary exchange of sodium in traumatic shock, 1944, 142: 407
- See FLEXNER, L. B.
- See POHL, H. A.
- GELHORN, E. Sensitivity of auditory area to anoxia, 1951, 164: 748
- and BALLIN, H. M. Afferent impulses and hypothalamic potentials, 1946, 146: 630
- and BALLIN, H. M. Anoxia and convulsions, 1950, 162: 503
- and BALLIN, H. M. Electroencephalogram and water intoxication, 1946, 146: 559
- and FELDMAN, J. Magnesium deficiency and autonomic nervous system, 1941, 134: 603
- and FELDMAN, J. Temperature and autonomic nervous system, 1941, 133: 670
- and KESSLER, M. Hypoglycemia and electroencephalogram, 1942, 136: 1
- and LEVIN, J. Nature of pupillary dilatation in anoxia, 1945, 143: 282
- and PACKER, A. Interaction of hypoglycemia and anoxia, 1940, 129: 610
- and POLLACK, F. Reactivity of autonomic medullary centers, 1943, 139: 661
- and STECK, I. E. Respiratory gas mixtures and blood flow in hand, 1938, 124: 735
- and THOMPSON, L. Muscle pain and cortically induced movements, 1944, 142: 231
- and THOMPSON, M. B. Excitation of muscle pain receptors after decerebration, 1945, 144: 259
- and YESINICK, L. Anoxia, CO₂ and carotid sinus reflexes in convulsions, 1942, 137: 404
- , CORTELL, RUTH and CARLSON, H. B. Effect of anoxia on somatic and autonomic centers, 1942, 135: 641
- , CORTELL, RUTH and FELDMAN, J. Hypothalamic stimulation and vago-insulin system, 1941, 133: 532
- , CORTELL, RUTH and MURPHY, J. P. Autonomic center activation and sympathetic response, 1946, 146: 376
- , KIELY, W. F. and HAMILTON, S. L. Hypoglycemia and excitability of vasomotor center, 1940, 130: 256
- , PACKER, A. and FELDMAN, J. Hypoglycemia and anoxic convulsions, 1940, 130: 261
- , YESINICK, L., KESSLER, M. and HAILMAN, H. F. Carotid sinus reflexes and convulsions, 1942, 137: 396
- See ARNETT, V.
- See BECKETT, SIBYL
- See CORTELL, RUTH
- See CRESS, C. H.
- See DARROW, C. W.
- See FELDMAN, J.
- See GLICKMAN, N.
- See GREENBERG, R.
- See HYDE, JANE
- See KESSLER, M.
- See KIELY, W. F.
- See LOOFBOUKROW, G. N.
- See SAFFORD, H.
- See TESCHAN, P.
- See YESINICK, L.
- GEMMILL, C. L. Alloxan and muscle glycolysis, 1947, 150: 613
- Thyroxine and ascorbic acid oxidation, 1951, 167: 349
- See KOEPF, G. F.
- GENICULATE BODIES, MEDIAL lesions in, and hearing, 1939, 125: 15
- pathway to acoustic cortex, 1946, 147: 311
- response and optic tract potential in anoxia, 1950, 161: 581
- GEOHEGAN, W. A., WOLF, G. A., JR., AIDAR, O. J., HARE, K. and HINSEY, J. C. Spinal origin of preganglionic fibers to limbs, 1942, 135: 324
- GEORGIADIS, RUTH S.: see HANDLER, P.
- GEOTROPIC REFLEX standing as, 1938, 121: 471
- GERARD, R. W.: see BOYARKSY, L. L.
- See BROOKS, V. B.
- See DOTY, R. W.
- See MICHAELIS, M.
- See PATT, H. M.
- See PEARCE, JANE
- See SAMUELS, A. J.
- See TOBIAS, J. M.
- See TSCHIRGI, R. D.
- GERBER, C. F. and BLANCHARD, E. W. Effect of certain substances on blood clotting time, 1945, 144: 447
- GERBER, L. P.: see NIELSEN, E. K.
- GERITY, MILDRED K.: see FERREBEE, J. W.
- GERKING, S. D. and ROBINSON, S. Sweating at work in severe heat, 1946, 147: 370
- See ROBINSON, S.
- GERSH, I. Fate of blood colloidal calcium phosphate, 1938, 121: 589
- and GROLLMAN, A. Adrenal cortex and male reproductive system, 1939, 126: 368
- and GROLLMAN, A. Kidney function in adrenal cortical insufficiency, 1939, 125: 66
- and WAGNER, C. E. Metabolic factors in oxygen poisoning, 1945, 144: 270
- See BROOKS, C. McC.
- GERSHOFF, S. N.: see NEWELL, G. W.
- GERSHON-COHEN, J.: see PASCHKIS, K. E.
- GERSTL, B.: see LUSTIG, B.
- GERTLER, M. M., HOFF, H. E. and HUMM, D. G. Acid tolerance of heart, 1946, 146: 478
- See TERROUX, K. G.
- GERTLER, P. E.: see PERKINS, J. F., JR.
- GESELL, R. and ATKINSON, A. K. Motor integration, 1943, 139: 745
- and FREY, JEANE S. Role of acetylcholine in summation of stimuli, 1950, 160: 375
- and HAMILTON, MARY ALICE. Reflexogenic components of breathing, 1941, 133: 694
- and HANSEN, E. T. Central neurohumoral inter-mediation, 1943, 139: 371

- GESELL, R. and HANSEN, E. T. cH and nervous integration, 1945, 144: 126
- and MOYER, C. A. Dual excitatory action of vagal stretch reflex, 1941, 131: 674
- and MOYER, C. A. Respiratory drives resulting from open pneumothorax, 1942, 135: 539
- and WHITE, FLORENCE. Recruitment muscle hyperpnea, 1938, 122: 48
- and WORZNIAK, J. J. Origin of expiratory patterns, 1941, 131: 681
- , ATKINSON, A. K. and BROWN, R. C. Gradation of intensity of inspiratory contractions, 1941, 131: 659
- , ATKINSON, A. K. and BROWN, R. C. Origin of respiratory activity patterns, 1940, 128: 629
- , BRASSFIELD, C. R. and HAMILTON, MARY A. Acid-neurohumoral mechanism of nerve cell activation, 1942, 136: 604
- , HANSEN, E. T. and SISKEL, JEANE. Electrotonic nervous integration, 1947, 148: 515
- , HANSEN, E. T. and WORZNIAK, J. J. Humoral intermediation of nerve cell activation, 1943, 138: 776
- , HUNTER, J. and LILLIE, R. Activity of motor neurons, 1949, 159: 15
- , LAPIDES, J. and LEVIN, M. Interactions in chemical control of breathing, 1940, 130: 155
- , MAGEE, C. S. and BRICKER, J. W. Activity patterns of respiratory mechanism, 1940, 128: 615
- , MASON, A. and BRASSFIELD, C. R. Acid-humoral intermediation, 1944, 141: 312; 1944, 142: 131
- , MOYER, C. A. and McKITTRICK, J. B. Chemical stimulation of expiratory half-center, 1942, 136: 486
- See FINERTY, J. C.
- See LOWE, C. R.
- GIANTURCO, C.: see STEGGERDA, F. R.
- GIBBON
- Lar, inulin and creatinine excretion by, 1938, 122: 134
- GIBSON, B.: see MAASKE, C. A.
- GIBSON, J. G., 2ND KEELEY, J. L. and PIJOAN, M. Blood volume of normal dogs, 1938, 121: 800
- See PIJOAN, M.
- GIDDINGS, G. Sleep motility of children, 1939, 127: 480
- See HALDI, J.
- GIERLACH, Z. S.: see HAMOLSKY, M. W.
- GILBERT, D. L., JANNEY, C. D. and HINES, H. M. Uptake of P^{32} by skeletal muscle, 1950, 163: 575
- GILBERT, J. L.: see BROOKS, C. McC.
- See ORIAS, O.
- See SIEBENS, A. A.
- See SUCKLING, E. E.
- GILL, A. J.: see ASHWORTH, C. T.
- GILLESPIE, W. H.: see RICHARDS, D. W., JR.
- GILLESPIE, W. M., JR.: see GUYTON, A. C.
- GILLIGAN, D. R.: see LOWRY, O. H.
- GILLILAN, LOIS A. and CONKLIN, RUTH E. Removal of foreign substances by lung lymphatics, 1938, 123: 598
- GILMAN, A., PHILIPS, F. S. and KOELLE, E. S. Renal clearance of thiosulfate, 1946, 146: 348
- , PHILIPS, F. S., KOELLE, E. S., ALLEN, ROBERTA P. and St. JOHN, ELLEN. Nephrotoxic action of tetrathionate, 1946 147: 115
- See CRESCITELLI, F.
- See LINDSKOG, G. E.
- See MUDGE, G. H.
- See PHILIPS, F. S.
- GILSON, A. S., JR.: Accomodation during vagal inhibition, 1939, 127: 333
- A-V pause in spread of cardiac activation, 1942, 138: 113
- and MILLS, W. B. Single motor unit activity, 1941, 133: 658
- See WALKER, S. M.
- GILSON, S. B. Adaptation to cold air, 1950, 161: 87
- GILSON, W. E.: see CRANFIELD, P. F.
- See EYSTER, J. A. E.
- GIRELLA NIGRICANS
- adrenaline and O_2 consumption, 1942, 137: 533
- GIRLING, F. Effects of adrenaline in rabbit, 1951, 164: 400
- See NICHOL, J.
- GJESSING, E. C.: see CHANUTIN, A.
- GLASER, G. H.: see WIGGERS, H. C.
- GLASS, H. G., SNYDER, F. F. and WEBSTER, ELIZABETH. Age and resistance to anoxia, 1944, 140: 609
- See PFEIFFER, C.
- GLASS, L. C.: see KING, C. E.
- GLASSER, O. and PAGE, I. H. Experimental hemorrhagic shock, 1948, 154: 297
- See LEWIS, LENA A.
- See REINHARD, J. J., JR.
- GLAZKO, A. J. and FERGUSON, J. H. Quantitative effects of immediate antithrombins, 1941, 134: 54
- and GREENBERG, D. M. Acceleration of blood coagulation by saliva, 1939, 125: 108
- and GREENBERG, D. M. Activity of potassium in relation to radioactivity, 1939, 125: 405
- and GREENBERG, D. M. Inhibition of coagulation by electrolytes and heparin, 1940, 128: 399
- See FERGUSON, J. H.
- GLENN, F. and LASHER, E. P. Experimental hypertension after destruction of cord, 1938, 124: 106
- , CHILD, C. G. and PAGE, I. H. Destruction of cord and artificial hypertension, 1938, 122: 506
- See KAUER, J. T.
- GLENN, W. W. L.: see GOODYER, A. V. N.
- GLICK, D., ZAK, EDITH and VON KORFF, R. W. Role of gastric urease, 1950, 163: 386
- See GOOD, T. A.
- See VON KORFF, R. W.
- GLICKMAN, N. and GELHORN, E. Oxygen deficiency and sensibility to insulin, 1938, 121: 358
- , HICK, F. K., KEETON, R. W. and MONTGOMERY, M. M. Blood volume changes in hot environment, 1941, 134: 165
- , KEETON, R. W., MITCHELL, H. H. and FAHNESTOCK, M. K. Diet and man's tolerance to cold, 1946, 146: 538

- See KEETON, R. W.
 — See MITCHELL, H. H.
 GLICKSTEIN, J.: *see* BANDES, J.
 GLOBIN, MODIFIED
 as infusion blood following hemorrhage, 1947, 150: 641
 GLOBULIN
 Ac-, activity in plasma, 1947, 151: 338
 aureomycin and, 1951, 166: 578
 concentration in various species, 1948, 154: 134
 of serum, determination of, 1948, 152: 572
 of serum, formation and properties, 1948, 152: 567
 stability in stored plasma, 1948, 154: 122
 comparison with T-1824 as measure of plasma volume, 1950, 163: 518
 of blood, evisceration and, 1950, 160: 250
 of plasma, gamma fraction, callicrein inhibitor and, 1944, 142: 542
 hemorrhage and, 1943, 138: 569; 1944, 140: 739
 regeneration of, during hypoproteinemia, 1947, 144: 372
 of serum, growth and, 1941, 132: 365
 hormones and level, 1942, 136: 306
 protein of heart, kidney, liver and, 1940, 129: 687
 GLOBUS PALLIDUS: *see* PALLIUM
 GLOMERULAR FILTRATION
 angiotonin and, 1940, 130: 355
 blood pressure and, 1947, 150: 538
 clearance of allantoin as measure of, 1947, 151: 192
 glomerular perfusion and, 1951, 167: 546
 hypoproteinemia and, 1950, 162: 163
 measured by clearance of allantoin, 1948, 155: 278
 phlorhizin and, 1940, 130: 585
 phosphate reabsorption rates and, 1947, 151: 168
 plasma flow and, 1948, 153: 169
 renal control of acidity, 1946, 147: 482
 renal regulation of acid base balance, 1946, 147: 138
 renin and, 1940, 129: 699
 sodium excretion and, 1950, 160: 306; 1951, 165: 429
 testosterone and, 1942, 137: 342
 thyroid and, 1944, 141: 189
 tubular transport and, 1949, 159: 175
 vitamin A and volume 1939, 125: 797
 water diuresis and, 1951, 166: 416
 with creatinine, after renal ischemia, 1945, 144: 401
 GLOSSOPHARYNGEAL NERVES
 stimulation of and reflex deglutition, 1951, 166: 154
 GLOTZER, P. and SELIGMAN, A. M. Colorimetric determination of serum lipase, 1951, 164: 486
 — See FRANK, H. A.
 GLOVER, R. M. *see* BLOOD, F. R.
 GLUCOASCORBIC ACID
 cobalt polycythemia, 1949, 158: 317
 D-GLUCOASCORBIC ACID
 clotting time, 1945, 144: 453
 GLUCOGENESIS
 in kidney, 1947, 151: 198; 1948, 153: 47; 1948, 153: 205
 GLUCONEOGENESIS
 adrenal secretion and, 1951, 167: 613
 after fasting and evisceration, 1944, 142: 241
 cellular injury and, 1943, 138: 396
 in kidney, 1949, 156: 345; 1951, 165: 423
 GLUCONEOGENIC HORMONE
 from adrenal glands, 1951, 167: 613
 GLUCONIC ACID
 blood coagulation, 1940, 130: 576
 GLUCOSE
 absorption of, 1938, 123: 577; 1940, 128: 557; 1940, 131: 36; 1941, 135: 188; 1945, 144: 609; 1946, 146: 610
 acid stimulation of duodenum and, 1940, 128: 301
 adrenalectomy and, 1940, 131: 36; 1942, 137: 105
 and disposition of, in chick, 1942, 136: 247
 anoxia and, 1941, 134: 288
 in diabetic rat, 1942, 137: 242
 various agents and, 1942, 135: 330
 action potentials of squid eye, 1940, 130: 243
 appetite for, and insulin, 1942, 135: 782
 bile output, 1938, 122: 339
 chloride excretion, 1943, 140: 346
 clearance, phlorhizin and, 1940, 130: 586
 comparison with nutritive value of sucrose, 1945, 143: 340
 competition with phosphate for renal reabsorption, 1944, 142: 659
 concentration and oxidation, 1951, 167: 359
 conversion to pentose, 1950, 162: 421
 diffusion from cerebrospinal fluid, 1938, 123: 747
 disappearance of intravenous, 1938, 121: 534
 distribution between cells and serum, 1940, 130: 89
 distribution of insulin and, 1951, 166: 159
 energy value and thiamine intake, 1942, 137: 573
 eosinophiles and blood sugar, 1950, 163: 97
 equivalent of fed protein, 1951, 166: 213
 exchange, in liver slices in fever, 1951, 166: 113
 excretion, following dehydration, 1949, 156: 435
 in adrenalectomized rat, 1948, 152: 603
 in diabetes following pituitary extract, 1939, 125: 190
 in diuresis, 1938, 124: 662
 osmotic diuresis and, 1949, 157: 366
 pituitary hormones and, 1948, 155: 18; 1948, 155: 24
 tolerance after fasting and, 1946, 147: 229
 5% solution, distribution of massive infusion of, 1940, 130: 426
 permeability of cells to sulfocyanide and, 1940, 130: 427
 formation of, by kidney, 1943, 140: 276; 1950, 163: 655; 1951, 165: 423
 gastric emptying time, 1942, 135: 528; 1946, 146: 610
 heart rate, 1940, 129: 294
 heat production from, in monkey, 1944, 141: 253
 high concentration and distribution between cells and serum, 1940, 130: 89
 hypertonic solution of, and drinking, 1950, 162: 335
 infusion, and work output, 1951, 165: 474
 injection, cardiac and liver glycogen and, 1941, 134: 798
 metabolism of sodium and potassium and, 1949, 159: 168
 intake, carbohydrate metabolism and, 1940, 128: 557

GLUCOSE

- intake, nitrogen excretion and, 1947, 150: 391
- resistance to anoxia and 1945, 145: 196; 1946, 145: 369
- survival in cold and, 1947, 151: 366
- tryptophan excretion and, 1947, 150: 391
- work in heat and, 1944, 142: 254
- intravenously injected, 1941, 133: 43
- urine secretion in chicken and, 1940, 128: 592
- irradiation and, 1950, 162: 705
- isotonic, sensitivity of muscle, 1948, 154: 455
- ketosis and, 1938, 122: 542
- lactic acid exchange during hypoglycemia and, 1939, 127: 685
- liver control of, after hemorrhagic shock, 1945, 144: 234
- metabolism of, 1938, 123: 448
 - after hemorrhagic shock, 1945, 144: 233
 - in brain tissue after anoxia, 1945, 144: 334
 - in starvation and dehydration, 1947, 148: 600
 - pituitary and, 1944, 141: 662
 - thyroidectomy and, 1951, 166: 541
 - various ions and, 1946, 147: 509
- of blood: *see* BLOOD SUGAR; HYPERGLYCEMIA; HYPOLYCEMIA
- of brain, CO₂ and, 1949, 158: 478
- of genital tract, 1940, 130: 290
- of plasma, and gravity shock, 1944, 141: 166
- output by liver, 1947, 148: 306
 - by liver, insulin and glycine and, 1939, 125: 660
- passage from blood to joint spaces, 1941, 132: 154
- penetration into aqueous humour, 1942, 137: 423
- pH of cerebral cortex and blood, 1939, 125: 680
- phosphate and utilization in diabetic, 1950, 162: 416
- phosphorus turnover in muscle, 1944, 142: 623
- prevention of effects of anoxia on vision, 1945, 144: 378
- production in vitro by liver, insulin and, 1945, 144: 53
- renal tubular reabsorption, 1938, 122: 765
 - renal clearance of ascorbic acid and, 1944, 142: 183
- renal tubular transfer of, 1941, 133: 752
- replacement of perilymph with, 1939, 125: 694
- respiratory pattern at high altitudes, 1947, 150: 215
- respiratory quotient of, 1942, 135: 744; 1944, 141: 250
- response of gastrointestinal tract to ingestion of, 1945, 144: 609
- saline and, resistance to G forces and, 1946, 146: 41
- serum amylase, 1949, 159: 29
- space in body, 1950, 163: 224
- substrate for acid secretion in stomach, 1951, 166: 458
 - for smooth muscle activity, 1951, 167: 390
- survival on pure diet of, 1946, 147: 13
 - to explosive decompression and, 1950, 163: 401
- thiamine and nutritive value of, 1944, 141: 349; 1945, 143: 340; 1945, 145: 109
- Tm, thyroxin and, 1944, 140: 701
- traumatic shock and, 1943, 140: 68
- uptake and output by perfused liver, 1938, 124: 704

- urinary constituents, 1938, 124: 79
- urine volume after injection, 1939, 127: 542
- uterine respiration, 1940, 128: 658
- visceral usage of, after shock, 1945, 144: 234
- GLUCOSE TOLERANCE CURVE
 - adrenocortical hormones, 1949, 158: 353
 - adrenaline, 1949, 156: 361
 - after adrenalectomy, 1948, 152: 598
 - anoxia and, 1948, 152: 250; 1948, 154: 423
 - at ground level and at eight to ten thousand feet, 1946, 145: 370
 - decompression and, 1949, 158: 358
 - following insulin treatment, 1939, 125: 230
 - hypophysectomy, 1942, 136: 592
 - in normal and depancreatized ducks, 1941, 135: 225
 - in potassium deficient animals, 1951, 167: 317
 - insulin, 1947, 149: 490
 - muscular work, 1948, 155: 15
 - of normal and alloxan-treated rats, 1951, 167: 355
 - posterior pituitary hormones, 1949, 157: 59
 - temperature, 1949, 159: 95
 - work and, 1950, 160: 506
- GLUCOSE UTILIZATION
 - anoxia and, 1946, 146: 493
 - by extra-hepatic tissues, 1951, 164: 207
 - by hepatectomized diabetic rabbits, 1940, 130: 249
 - by hind leg of cat, 1949, 157: 205
 - by perfused brain, 1947, 149: 532
 - in depancreatized herbivora, 1947, 150: 46
 - in diabetic dogs, 1947, 148: 315
 - in liver, 1947, 148: 309
 - kidney function and, 1938, 124: 279
 - of intravenous injection, 1940, 128: 303
- GLUCOSE-LACTIC ACID CYCLE
 - in normal unanesthetized dog, 1939, 125: 41
- GLUCOSE-PHOSPHATES: *see* HEXOSE PHOSPHATES
- GLUCOSE:NITROGEN RATIO
 - critique of, 1947, 148: 317
- GLUTAMIC ACID
 - blood coagulation, 1940, 130: 576
 - O₂ consumption when substrate, 1941, 135: 183
 - renal hypertension, 1950, 162: 370
 - specific dynamic action, 1947, 151: 342
 - substrate for perfused rat heart, 1949, 158: 272
 - tubular reabsorption, 1944, 140: 537
- GLUTAMINASE
 - of kidney, 1948, 154: 542
- GLUTARIC ACID
 - blood coagulation, 1940, 130: 576
- GLUTATHIONE
 - adrenal ascorbic acid, cholesterol and, 1951, 164: 770
 - blood and liver levels, 1951, 165: 569
 - clotting time, 1945, 144: 453
 - of blood, in bovine, 1948, 152: 633
 - of uterus, 1940, 128: 655
 - pregnancy and content in various organs, 1940, 128: 655
 - primary potential, 1949, 159: 86
 - prophylaxis for tetrathionate poisoning, 1946, 147: 122
 - protection against potassium toxicity, 1951, 164: 766
 - response to epinephrine and, 1943, 140: 372

- stress, ACTH and, 1951, 165: 574
 survival of isolated respiratory center, 1946, 146: 243
- GLYCERALDEHYDE**
 acetylcholine synthesis and excitation, 1946, 147: 384
- GLYCEROL**
 heart rate, 1940, 129: 295
 inhibition of pyloric sphincter by, 1941, 134: 805
- GLYCERYL TRINITRATE**
 TEA and response to, 1949, 157: 163
- GLYCINE**
 absorption, anoxia and, 1941, 134: 288
 blood coagulation, 1940, 128: 401
 C-14 labeled, as measure of erythrocyte life span, 1951, 165: 565
 creatine-creatinine excretion, 1939, 127: 717
 hepatic glucose output, 1939, 125: 658
 hypophysectomized dogs, 1939, 125: 666
 infusion and renal hemodynamics of dog, 1944, 142: 363
 ingestion, response and creatinine excretion and, 1951, 132: 578
 muscular strength, 1941, 134: 470
 renal reabsorption, 1943, 140: 163; 1944, 140: 539
 selective retention of nitrogen from, 1939, 126: 218
 sodium salicylate and, uric acid and allantoin excretion and, 1948, 152: 302
- GLYCOCOLL: see GLYCINE**
- GLYCOGEN**
 alloxan and formation in liver, 1950, 160: 107
 anoxia and, 1940, 129: 612
 and stores, 1944, 140: 478
 formation from acetate, 1951, 166: 127
 in normal and hyperthyroid rats, 1943, 138: 653
 intravenous injection of, 1951, 165: 288
 of heart, adrenalectomy and, 1938, 122: 447; 1938, 123: 708
 after coronary occlusion, 1942, 136: 481
 anoxia and, 1944, 140: 478
 deposition in and ketosis, 1946, 145: 471
 hyperthyroidism and, 1938, 124: 742
 in adrenalectomized animals, insulin and, 1941, 131: 792
 in normal and adrenalectomized sloths, 1938, 123: 703
 in potassium deficiency, 1951, 167: 318
 insulin and, 1941, 134: 799
 various procedures and, 1944, 142: 686
 of liver, accumulation during hypoxia, 1950, 161: 331
 adrenalectomy and, 1938, 122: 447; 1938, 123: 703; 1938, 123: 708; 1941, 134: 8
 adrenalectomy and insulin, 1941, 131: 792
 adrenocortical hormones and, 1949, 159: 264
 alloxan diabetes and, 1950, 162: 418
 anoxia and, 1944, 140: 478
 anterior pituitary and, 1942, 137: 675
 boron and potassium-low diet and, 1945, 143: 389
 caloric restriction and, 1948, 154: 519
 CO₂ and hypoxia, 1950, 161: 331
 diethylstilbestrol and, 1942, 136: 137
 discontinuous, chronic anoxia and, 1947, 150: 65
 ether, and starvation, 1942, 136: 746
 exercise and, 1941, 134: 766
 fasting in extreme cold and, 1950, 161: 303
 hormones and, 1941, 131: 783; 1941, 132: 446
 hypothermia and, 1947, 149: 555
 insulin and, 1939, 125: 231; 1941, 134: 799
 ovariectomy and, 1946, 146: 136
 pituitary adrenocorticotrophic hormone and, 1941, 134: 8
 potassium deficiency and, 1951, 167: 318
 thyroidectomy and, 1946, 145: 412
 of liver and muscle, 1940, 128: 557; 1949, 159: 264
 DCA and, 1949, 159: 256
 potassium injection and, 1938, 122: 525
 of muscle, adrenalectomy and, 1938, 122: 447; 1938, 123: 708
 anoxia and, 1944, 140: 478
 anterior-pituitary hormones and, 1943, 140: 453
 following ischemia, 1951, 167: 294; 1951, 167: 308
 in adrenalectomized animals, insulin and, 1941, 131: 792
 in chick, 1942, 136: 247
 in muscle atrophy, 1950, 161: 409
 in normal and adrenalectomized sloths, 1938, 123: 703
 insulin and, 1940, 129: 785
 metabolism in, 1943, 138: 357
 of frog gastrocnemius, 1944, 141: 113
 potassium deficiency and, 1951, 167: 318
 of muscle column, work and recovery, 1941, 132: 341
 of central nervous system, 1946, 146: 390
 of tissues following hemorrhagic shock, 1946, 147: 446
 parenteral infusion of, 1950, 161: 554
 possible derivation from ketones in heart, 1946, 145: 473
 prepared from corn, 1950, 161: 554
 shock and, 1946, 146: 267
- GLYCOGEN BODY**
 of chicken, glycogenolysis in, 1951, 165: 624
- GLYCOGENESIS**
 comparison of DCA, compound E and adrenal cortical extract, 1949, 159: 263
 DCA and, 1949, 159: 256
- GLYCOGENOLYSIS**
 in isolated liver, 1940, 131: 521
 in liver and glycogen body of chick, 1951, 165: 624
 insulin in vitro and, 1945, 144: 53
 liver, anterior pituitary, and adrenaline, 1942, 137: 124
- GLYCOLS**
 aliphatic, taste sensitivity to, 1951, 165: 249
- GLYCOLYSIS**
 anoxia, and temperature, 1950, 163: 642
 cold and, 1943, 139: 194
 in atrophic and regenerating muscle, 1943, 138: 357
 in blood, phosphate and, 1948, 152: 216
 in bone marrow, 1940, 128: 459; 1940, 131: 176
 anoxia and, 1941, 135: 251

GLYCOLYSIS

- in brain, antipyrin and, 1949, 157: 287
- fever and, 1949, 157: 283
- in C.N.S. during growth, 1944, 142: 545
- in cerebral cortex and brain stem, 1944, 141: 513
- in leukemic tissue, 1943, 139: 719
- in liver in vitro, 1946, 147: 509
- in muscle, alloxan and, 1947, 150: 614
- neurotomy and, 1951, 164: 754
- in newborn, 1942, 135: 388
- in tissues in potassium deficiency, 1951, 167: 319
- inhibition by iodoacetate and iodoacetamide, 1938, 122: 379
- of spermatozoa, 1941, 132: 195; 1941, 133: 602; 1942, 136: 77; 1945, 143: 694; 1950, 162: 598
- salicylates and, 1951, 164: 730

GLYCOSURIA

- due to injection of ACTH in normal animals, 1951, 166: 168

GLYCOTROPIC SUBSTANCE: *see* ANTERIOR PITUITARY HORMONES

GLYCURESIS

- in phlorizin diabetes, mechanism of, 1941, 134: 94

GOAT

- beta-hydroxybutyric acid utilization by heart and lungs, 1938, 123: 272
- lactation in, 1941, 132: 535
- metabolism of, 1950, 162: 434
- pancreatectomy in, 1938, 122: 729; 1940, 130: 145; 1947, 150: 48
- potassium response to epinephrine in, 1941, 132: 9
- secretion of radio-calcium in milk, 1950, 162: 579
- thyroid secretion rate in, 1947, 150: 691
- thyroxin metabolism in, 1948, 154: 1
- transfer of sodium across placenta in, 1941, 134: 338
- vitamin B of whole blood, 1950, 163: 79

GODFREY, E. W.: *see* RUTHERFORD, R. B.

GODFREY, T. M.: *see* IRWIN, MARGARET H.

GOETTSCH, E., LYTLE, J. D., GRIM, W. M. and DUNBAR, P. Renal amino acid clearance in dog, 1944, 140: 688

GOITER

- experimental, mechanism of occurrence, 1948, 152: 150
- non-toxic, iodine metabolism in, 1939, 127: 566; 1940, 131: 139

GOLD

- colloids, distribution in various organs, 1951, 164: 830

- ions, synovial membrane potential and, 1949, 158: 64

GOLD (RADIOACTIVE)

- colloids, disappearance from circulation, 1951, 164: 345

- hematology and, 1951, 166: 323

- use to measure reticulo-endothelial system, 1951, 164: 824

GOLD, J. J.: *see* REMINGTON, J. W.

GOLDBERG, H. and EYSTER, J. A. E. Action potentials of frog skeletal muscle, 1952, 135: 676

— and EYSTER, J. A. E. Electrical and mechanical events in turtle ventricle, 1940, 128: 390

— and EYSTER, J. A. E. Intraventricular pressure and local muscle activity, 1940, 131: 416

— *See* EYSTER, J. A. E.

— *See* INGRAHAM, R. C.

— *See* STAMLER, J.

— *See* WIGGERS, H. V.

GOLDBERG, S. E.: *see* GOLDZBAND, M. G.

GOLDEN, H.: *see* HORVATH, S. M.

GOLDEN, JUNE B.: *see* LAUSON, H. D.

GOLDEN, W. R. C. and LONG, C. N. H. Absorption and disposition of glucose in the chick, 1942, 136: 244

GOLDENSOHN, E. S., WHITEHEAD, R. W., PARRY, T. M., SPENCER, J. N., GROVER, R. F. and DRAPER, W. B. Diffusion respiration and carbon dioxide, 1951, 165: 334

GOLDFARB, A. R.: *see* LUSTIG, B.

GOLDFARB, W.: *see* HIMWICH, H. E.

GOLDFISH

- cholinesterase of nervous system, 1945, 143: 690
- hypothermia and magnesium of blood, 1950, 161: 399

- sodium flux through gills, 1951, 165: 580

- sucrose and kidneys, 1944, 141: 435

- tin and growth, 1940, 130: 665

GOLDMAN, A.: *see* KATZ, L. N.

— *See* MCSHAN, W. H.

— *See* MEYER, R. K.

GOLDMAN, D. E.: Mechanical vibration and patellar reflex, 1948, 155: 78

GOLDMAN, L.: *see* GRODINS, F. S.

— *See* OSBORNE, S. L.

GOLDMAN, M. L.: *see* KRIS, J. P.

GOLDNER, M. G.: *see* PRATT, E. B.

GOLDSCHMIDT, L., ROSENTHAL, R. L., BOND, V. P. and FISHLER, M. C. Thermal fragility of erythrocytes, 1951, 164: 202

— *See* ROSENTHAL, R. L.

GOLDSCHMIDT, S.: *see* CHAMBERS, A. H.

— *See* DAVENPORT, H. W.

GOLDSMITH, E. D.: *see* CHARIPPER, H. A.

— *See* GORDON, A. S.

GOLDSMITH, M.: *see* PEISS, C. N.

GOLDSTEIN, F. and RIEDERS, F.: Cyanide following thiocyanate administration, 1951, 167: 47

GOLDSTEIN, M. S., RAMEY, E. R. and LEVINE, R. Fatigue and circulation in dog, 1950, 163: 561

— *See* LEVINE, R.

— *See* RAMEY, E. R.

— *See* ROBBARD, S.

GOLDSTEIN, N. P., SMITH, B. W., EPSTEIN, J. H. and ROE, J. H. Glucose and serum amylase, 1949, 159: 29

GOLDSTEIN, P.: *see* MYLON, E.

GOLDTHIOGLUCOSE

- obesity and food requirements following, 1950, 162: 428

GOLDZBAND, M. G., GOLDBERG, S. E. and CLARK, G. Cessation of walking, 1951, 167: 127

GOLLAN, F.: *see* CAMPBELL, G. S.

GOLLUB, S., KAPLAN, F. E. and MERANZE, D. R.

- Brain and lung thromboplastin differences, 1950, 162: 293
- GOLSETH, J. G. and FIZZELL, J. A. Electromyographic studies on sciatic nerve, 1947, 150: 558
- GOMEZ, D. M.: *see* MORALES, P. A.
- GONADECTOMY: *see* CASTRATION
- GONADOTROPIC EXTRACT: *see* GONADOTROPINS
- GONADOTROPINS
- absorption, when injected with S.L.S., 1945, 145: 124
 - antagonist, properties of, 1939, 125: 290
 - antigonadotrophic formation after, 1947, 148: 700
 - antigonadotrophins of serum and, 1950, 162: 393
 - antihormone effect, 1948, 153: 21
 - augmentation by zinc or copper, 1938, 121: 765
 - blood N.P.N. and, 1942, 137: 207
 - chorionic, blood amino acids and, 1940, 128: 777
 - fat metabolism and, 1938, 122: 73
 - fetal survival and, 1932, 137: 143
 - induction of ovulation with, 1941, 132: 405
 - length of gestation and, 1938, 122: 455
 - differential action of, 1938, 121: 633
 - equine, activity in combination with zinc, 1945, 145: 29
 - hypophysectomized rats and, 1944, 140: 563
 - immature male rats and, 1944, 140: 561
 - in non-pregnant mare, 1939, 127: 702; 1939, 127: 751
 - erythrocyte count, 1943, 138: 482
 - formalin, 1939, 125: 113
 - from green leaves, 1939, 125: 486
 - inhibition by antigonadotrophic serum, 1945, 145: 181
 - by estrogen and progesterone, 1951, 164: 26
 - interrelation of, 1938, 121: 625
 - menopausal and normal, 1939, 127: 650
 - ovarian response to, and nephrectomy, 1943, 138: 241
 - ovaries, pituitaries, and adrenals, 1938, 121: 794
 - pituitary, at puberty, 1939, 127: 629
 - augmentation by heme, 1943, 139: 89
 - heat and activation of, 1940, 128: 534
 - induction of estrous behavior with, 1939, 126: 229
 - ovaries in alloxan diabetes and, 1947, 150: 89
 - rat testis and, 1938, 122: 320
 - urinary nitrogen and, 1942, 137: 547
 - qualitative study of, 1939, 127: 649
 - rat uterus in assay of, 1938, 121: 364
 - secretion of, and estrogens, 1941, 134: 143
- GONADS
- cholinesterase in, 1947, 148: 677
 - development and antigonadotrophic serum, 1942, 136: 294
 - thyroidectomy and, 1938, 121: 224
 - weight, effect of alpha-estradiol alone and with yeast, 1946, 145: 467
- GONGORA, J.: *see* KOCHAKIAN, C. D.
- GONZALEZ, Q., J. and ANGERER, C. A. O₂ consumption of erythrocytes after adrenalectomy, 1947, 149: 502
- GOOD, R. A.: *see* GOOD, T. A.
- GOOD, T. A., GOOD, R. A., KELLEY, V. C. and GLICK, D. Mucolytic enzyme systems, 1951, 166: 555
- GOODALE, W. T., LUBIN, M., ECKENHOFF, J. E., HAFKENSCHIEL, J. H. and BANFIELD, W. G., JR. Coronary sinus catheterization, 1948, 152: 340
- *See* ECKENHOFF, J. E.
- GOODFRIEND, J.: *see* LEVINE, R.
- GOODMAN, D.: *see* CLARKE, B. G.
- GOODMAN, H. C.: *see* SELLERS, A. L.
- GOODMAN, J.: *see* HYMAN, C.
- *See* TYLER, D. B.
- GOODMAN, L. S.: *see* CHENG, C.-P.
- *See* WOODBURY, D. M.
- GOODPASTOR, W. E.: *see* TAGNON, H. J.
- GOODPASTURE, W. C., VERMEULEN, C., DONOVAN, P. B. and DRAGSTEDT, L. R. Bromsulphalein liver test in assay of lipocaic, 1938, 124: 642
- *See* DRAGSTEDT, L. R.
- GOODSELL, JULIA E. Adrenal steroids in vitamin-B₁ deficiency, 1941, 134: 125
- Weight changes of adrenals in vitamin-B₁ deficiency, 1941, 134: 119
- GOODYER, A. V. N. and GLENN, W. W. L. Depulsation and renal function, 1951, 167: 689
- GOORLEY, J. T.: *see* BERRYMAN, G. H.
- GORDON, A.: *see* STAMLER, J.
- GORDON, A. S., GOLDSMITH, E. D. and CHARIPPER, H. A. Thiouracil, thyroidectomy and metabolism, 1946, 146: 439
- *See* CHARIPPER, H. A.
- GORDON, D. B. and FLASHER, J. Humoral substance from rabbit's kidney, 1951, 164: 624
- *See* DRURY, D. R.
- GORDON, R. A.: *see* BIGELOW, W. G.
- GORIN, E. F.: *see* HOFFMAN, B. F.
- GOSS, C. M. Physiology of heart before circulation begins, 1942, 137: 146
- GOSS, H.: *see* COLE, H. H.
- GOSSELIN, R. E. Acute hypothermia in guinea pigs, 1949, 157: 103
- GOTTSCHALK, C. W.: *see* TOSTESON, D. C.
- GOUDSMIT, A., JR., POWER, M. H. and BOLLMAN, J. L. Excretion of sulfates by the dog, 1939, 125: 506
- GOULD, B. S. and SHWACHMAN, H. Bone and tissue phosphatase in experimental scurvy, 1942, 135: 485
- GOURLEY, D. R. H. Inhibition of P³² uptake of erythrocytes, 1951, 164: 213
- GOVAERTS, J. Calcium urinary excretion, 1949, 159: 542
- GOWDEX, J. F.: *see* LEVINE, H. D.
- GRAD, B. and LEBLOND, C. P. Thyroxine and the liver, 1950, 162: 17
- GRADE WALKING
- training, 1942, 136: 151
- GRADY, H. G.: *see* BLUM, H. F.
- GRAEF, I.: *see* PROSKAUER, G. G.
- *See* RALLI, ELAINE P.
- GRAHAM, G.: *see* WIGGERS, C. J.
- GRAHAM, G. R.: *see* ECKSTEIN, R. W.

- GRAHAM, HELEN T. and LORENTE DE NÓ, R. Recovery of blood-perfused mammalian nerves, 1938, 123: 326
 — See LORENTE DE NÓ, R.
- GRAHAM, J. B., PENICK, G. D. and BRINKHOUS, K. M. Utilization of antihemophilic factor, 1951, 164: 710
- GRAHAM, J. S. Circulatory changes and carbon arc irradiation, 1943, 139: 604
- GRAHAM, W. R., JR., HOUGHIN, O. B., PETERSON, V. E. and TURNER, C. W. Efficiency of the mammary gland, 1938, 122: 150
- GRAÑA, A. and ROCHA E SILVA, M. Hydatid fluid and histamine content of blood, 1945, 143: 314
 —, MANN, F. C. and ESSEX, H. E. Liver and shock from extracts of certain parasites, 1947, 148: 243
 — See ESSEX, H. E.
 — See ROCHA E SILVA, M.
- GRANATH, L. P.: see HERGET, C. M.
- GRANT, G. A.: see SKELTON, F. R.
- GRANT, R. Emotional hypothermia, 1950, 160: 285
 — Pyrogen fever, 1949, 159: 511
 — and HIRSCH, J. DOROTHY. Adrenals and fever, 1950, 161: 528
 — See ELLIS, F. A.
 — See FISHGOLD, J. T.
- GRANT, RHODA. Calcium content, acidity and buffer value of gastric juice, 1941, 132: 467
 — Calcium in gastric mucus and gastric acidity, 1942, 135: 496
 — Inhibition of gastric secretion by calcium salts 1941, 132: 460
- GRANT, W. C. Chemoreceptors and oxygen saturation, 1951, 164: 226
 — O₂ saturation and hemorrhage, 1948, 153: 521
 — Pneumothorax and blood elements, 1949, 159: 394
 — and ROOT, W. S. O₂ in bone marrow blood and erythropoiesis, 1947, 150: 618
 — See SCHNEIDER, E. C.
- GRANULOCYTES
 vitamin B₁₂ deficiency, 1950, 162: 717
- GRASS, A. M.: see ROSENBLUTH, A.
- GRATTAN, J. F., JENSEN, H. and INGLE, D. J. Anti-insulin effect of pituitary via adrenal cortex, 1941, 134: 8
 — See JENSEN, H.
- GRAUBARD, M. Uterine respiration, cytochrome oxidase and copper, 1941, 131: 584
 — and PINCUS, G. Pregnancy and uterine changes in rabbit, 1940, 128: 653
 — See RANDALL, L. O.
- GRAVITATIONAL SHOCK: see SHOCK, GRAVITATIONAL
- GRAVITY
 blood pressure, 1942, 135: 413
 syncope induced by, 1939, 128: 258; 1943, 138: 630
- GRAY, F.: see GREEN, D. M.
- GRAY, F. D., JR., BING, R. J. and VANDAM, L. Cardiac output determination, 1947, 151: 245
- GRAY, G. W.: see BEAN, J. W.
- GRAY, H. and ADDIS, T. Weight-age relations, 1948, 153: 35
- GRAY, J. S. and ADKISON, J. L. Gastric secretion in vitro and inorganic ions, 1941, 134: 27
 — and BUCHER, GLADYS, R. Composition and rate of secretion of gastric juice, 1941, 133: 542
 —, ADKISON, J. L. and ZELLE, K. In vitro acid secretion by gastric mucosa, 1940, 130: 327
 —, BUCHER, GLADYS R. and HARMAN, H. H. Total, acid, and neutral chlorides of gastric juice, 1941, 132: 504
 —, CULMER, C. U., WELLS, J. A. and WIECZOROWSKI, E. Excretion of urogastrone, 1941, 134: 623
 —, WIECZOROWSKI, E., CULMER, C. U. and ADKISON, J. L. Pyrogen in urine and its separation from urogastrone, 1940, 129: 589
 — See BUCHER, GLADYS R.
 — See LOEW, E. R.
 — See SCHIFFRIN, M. J.
 — See WELLS, J. A.
- GRAY, MARY E.: see ORR, W. F., JR.
- GRAY, S. W. Pattern of contraction and relaxation, 1950, 162: 249
 — Respiratory movements in drowning, 1951, 167: 95
- GRAYBIEL, A. see EGAÑA, E.
 — See ROUGHTON, F. J. W.
- GRAYMAN, ISABELLE: see MIRSKY, I. A.
- GREAVES, J. D. Cause of bleeding in bile fistula and jaundiced rats, 1939, 125: 423
 — Vitamin K requirements of rat, 1939, 125: 429
- GREELEY, P. O. Action of insulin in depancreatized herbivora, 1947, 150: 46
 — Duration of insulin action, 1940, 129: 17
 — and DRURY, D. R. Use of glucose by hepatectomized diabetic rabbit, 1940, 130: 249
 — See BARNES, R. H.
 — See BAVETTA, L.
 — See DRURY, D. R.
- GREEN, A. A.: see PAGE, I. H.
- GREEN, D. M. Anoxia and work performance, 1947, 151: 588
 — and FARAH, A. Sodium load and excretion, 1949, 158: 444
 —, BRIDGES, W. C., JOHNSON, A. D., LEHMAN, J. H., GRAY, F. and FIELD, L. Glomerular filtration and sodium excretion, 1950, 160: 306
 —, COLEMAN, D. H. and McCABE, M. Hypertension, salt and adrenals, 1948, 154: 465
 — See COOK, D. L.
 — See SKAHEN, JULIA G.
- GREEN E. L.: see ELBEL, E. R.
- GREEN, H. D. and GREGG, D. E. Cardiac factors influencing coronary circulation, 1940, 130: 126
 — and GREGG, D. E. Differential pressure and flow in coronary artery, 1940, 130: 97
 — and WÉGRIA, R. Coronary blood flow in asphyxia, anoxia and ischemia, 1942, 135: 271
 —, BERGERON, G. A., LITTLE, J. M. and HAWKINS, J. E., JR. Toxic factor in shock, 1947, 149: 112
 —, COSBY, R. S. and RADZOW, K. H. Dynamics of collateral circulations, 1944, 140: 726

- , DWORKIN, R. M., ANTOS, R. J. and BERGERON, G. A. Ischemic compression shock, 1944, 142: 494
- , LEWIS, R. N., NICKERSON, N. D. and HELLER, A. L. Blood flow, peripheral resistance and vascular tonus, 1944, 141: 518
- , NICKERSON, N. D., LEWIS, R. N. and BROFMAN, B. L. Morphine and barbiturate anesthesia, 1943, 140: 177
- See BOBB, J. R. R.
- See GREGG, D. E.
- See LIPTON, E. L.
- See LITTLE, J. M.
- GREENBERG, D. M. and TUFTS, ELMA V. Magnesium tetany, 1938, 121: 416
- , AIRD, R. B., BOELTER, MURIEL D. D., CAMPBELL, W. W., COHN, W. E. and MURAYAMA, M. M. Blood-cerebrospinal barrier and radioactive isotopes, 1943, 140: 47
- , BOELTER, MURIEL D. D. and KNOFF, B. W. Development of tetany in the rat, 1942, 137: 459
- , LUCIA, S. P. and TUFTS, ELMA V. Magnesium deprivation and renal function, 1938, 121: 424
- See GLAZKO, A. J.
- See KAPLAN, N. O.
- GREENBERG, R. and GELLHORN, E. The lingo-maxillary reflex, 1943, 139: 417
- and POPPER, H. Vitamin A in the retina, 1941, 134: 114
- GREENBLATT, J.: *see* VIRTUE, R. W.
- GREENBLATT, M.: *see* CANZANELLI, A.
- See STEARNS, A. W., JR.
- GREENE, C. W. Coronary dilator reflexes with muscle contractions, 1941, 132: 321
- GREENE, J. A. and JOHNSTON, G. W. Disappearance rate of tyrosine from the blood, 1942, 136: 460
- , DAVID, ANN and JOHNSTON, G. W. Insulin resistance after pancreatectomy, 1942, 136: 595
- GREENGARD, H. and IVY, A. C. Isolation of secretin, 1938, 124: 427
- , GROSSMAN, M. I., ROBACK, R. A. and IVY, A. C. Enzyme content of pancreatic secretion, 1944, 141: 509
- , STEIN, I. F., JR. and IVY, A. C. Inactivation of cholecystokinin by blood serum, 1941, 134: 733
- , STEIN, I. F., JR. and IVY, A. C. Modification of pancreatic response to secretin, 1941, 134: 245
- , STEIN, I. R. JR. and IVY, A. C. Quantitative response of pancreas to secretin, 1941, 132: 305
- , STEIN, I. F., JR. and IVY, A. C. Secretinase in blood serum, 1941, 133: 121
- See GROSSMAN, M. I.
- GREENHUT, I. T.: *see* SCHWEIGERT, B. S.
- GREENWOOD, W. F. *see* BIGELOW, W. G.
- See CLEGHORN, R. A.
- GREEP, R. O.: *see* BARNETT, R. J.
- GREGERSEN, M. I. and RAWSON, RUTH A. Disappearance of T-1824 and related dyes from blood, 1943, 138: 698
- and ROOT, W. S. Traumatic shock produced by muscle contusion, 1947, 148: 98
- and SCHIRO, H. Absorption of dye T-1824 by red blood cells, 1938, 121: 284
- and STEWART, J. D. Plasma volume and available fluid, 1939, 125: 142
- , BOYDEN, A. A. and ALLISON, J. B. Blood volume with T-1824 and antigens, 1950, 163: 517
- See ALLISON, J. B.
- See BERNSTEIN, A. O.
- See CIZEK, L. J.
- See HAMLIN, E.
- See HOLMES, J. H.
- See PAINTER, ELIZABETH E.
- See POWERS, S.
- See ROOT, W. S.
- See TOBIAS, C. A.
- See WANG, S. C.
- GREGG, D. E. and DEWALD, D. Collateral coronary blood flow after vein occlusion, 1938, 124: 435
- and DEWALD, D. Coronary circulation after coronary vein occlusion, 1938, 124: 444
- and ECKSTEIN, R. W. Measurements of intramyocardial pressure, 1941, 132: 781
- and GREEN, H. D. Factors influencing coronary blood flow, 1940, 130: 108
- and GREEN, H. D. Normal phasic flow in coronary artery, 1940, 130: 114
- and SHIPLEY, R. E. Changes in right and left coronary inflow, 1944, 141: 382
- and SHIPLEY, R. E. Coronary inflow and left ventricular pressure, 1944, 142: 44
- and SHIPLEY, R. E. Venous drainage of the heart, 1947, 151: 13
- , PRITCHARD, W. H., ECKSTEIN, R. W., SHIPLEY, R. E., ROTTA, A., DINGLE, JANET T., STEEGE, T. W. and WEARN, J. T. Accuracy of the thermistoruhr, 1942, 136: 250
- , PRITCHARD, W. H. and SHIPLEY, R. E. Venous occlusion, 1948, 153: 153
- , PRITCHARD, W. H., SHIPLEY, R. E. and WEARN, J. T. Coronary blood flow and right ventricular pressure, 1943, 139: 726
- , SHIPLEY, R. E. and BIDDER, T. G. Functional importance of anterior cardiac veins, 1943, 139: 732
- , THORNTON, J. J. and MAUTZ, F. R. Collateral blood flow after coronary occlusion, 1939, 127: 161
- See ECKSTEIN, R. W.
- See GREEN, H. D.
- See LONGINO, F. H.
- See PRITCHARD, W. H.
- See SHIPLEY, R. E.
- See THORNTON, J. J.
- GREGOR, H. P.: *see* VISSCHER, M. B.
- GREGORY, R. A.: *see* CODE, C. F.
- GREIG, K. A. Uterine motility cycle in guinea pig, 1939, 125: 547
- GREIG, MARGARET E. and HOLLAND, W. C. Permeability of dog erythrocytes, 1951, 164: 423
- See HOLLAND, W. C.
- GREISEN, J. C.: *see* HOLT, J. P.

- GREISHEIMER, ESTHER M.: *see* RING, G. C.
 — *See* ROBINSON, H. W.
- GREMILLION, ALICE I.: *see* ASHMAN, R.
- GRIER, R. C., JR.: *see* HAHN, P. F.
- GRIFFIN, G. D. J., WOOD, E. H. and ESSEX, H. E.
 Determination of cardiac output, 1951, 164: 583
- GRIFFIN, GRACE E.: *see* SAMUELSEN, G. S.
- GRIFFITH, F. R., JR., COLE, C. D. and THOMAS, D. B.
 Adrenaline and CHO metabolism, 1949, 157: 205
- , EMERY, F. E. and LOCKWOOD, JULIA E. Calorigenic action of adrenaline, 1940, 128: 281
- , EMERY, F. E. and LOCKWOOD, JULIA E. CO₂ output and respiratory quotient after adrenaline, 1940, 130: 197
- , EMERY, F. E. and LOCKWOOD, JULIA E. Effect of adrenaline on pulmonary ventilation, 1940, 129: 155
- , EMERY, F. E. and LOCKWOOD, JULIA E. Metabolism under chloralose anesthesia, 1941, 131: 561
- , LOCKWOOD, JULIA E. and EMERY, F. E. Adrenaline hyperglycemia: proportionality with dose, 1939, 126: 299
- , LOCKWOOD, JULIA E. and EMERY, F. E. Adrenaline 1939, 127: 415
- , LOCKWOOD, JULIA E. and EMERY, F. E. Evisceration, adrenaline and blood lactic acid, 1938, 123: 432
- , LOCKWOOD, JULIA E. and LOOMIS, T. A. Systemic effects of arterially injected adrenaline, 1946, 146: 677
- , OMACHI, A., LOCKWOOD, JULIA E. and LOOMIS, T. A. Adrenaline on metabolism of peripheral tissues, 1947, 149: 64
See BUNNELL, I. L.
- *See* CAMMER, L.
- *See* HUBBARD, R. S.
- *See* JONES, R. J.
- *See* KINGDON, CLARA L.
- *See* WHITCHER, C. E.
- GRIFFITH, J. Q., JR. Vascular hypertension in relation to blood volume, 1938, 122: 140
- and ROBERTS, E. Hypertension after cisternal injection of kaolin, 1938, 124: 86
See RUTHERFORD, R. B.
- GRIFFITH, W. P.: *see* BARBOUR, H. G.
- GRIFFITHS, W. J., JR. Magnesium in nutrition of nervous system, 1947, 149: 135
- GRIM, W. M.: *see* GOETTSCH, E.
- GRINDLAY, J. H., HERRICK, J. F. and BALDES, E. J.
 Rhythmicity of spleen in relation to blood flow, 1939, 127: 119
- , HERRICK, J. F. and MANN, F. C. Measurement of blood flow from the liver, 1941, 132: 489
- , HERRICK, J. F. and MANN, F. C. Measurement of blood flow of spleen, 1939, 127: 106
- *See* BOLLMAN, J. L.
- *See* HERRICK, J. F.
- *See* NIX, J. T.
- GRINNELL, S. W.: *see* IRVING, L.
- GRISWOLD, BARBARA: *see* HUMOLLER, F. L.
- GROAT, R. A. Adrenal gland and food intake, 1941, 135: 58
- and PEELE, T. L. Blood pressure response to acute pressure on cord, 1945, 144: 578
- , MAGOUN, H. W., DEY, F. L. and WINDLE, W. F. Experimental concussion, 1944, 141: 117
- GROB, D.: *see* ZIERLER, K. L.
- GRODINS, F. S. and MORGAN, D. P. Respiration during exercise in spinal dog, 1950, 162: 64
- , LEIN, A. and ADLER, H. F. Blood acid-base balance in asphyxia, 1946, 147: 433
- , OSBORNE, S. L., IVY, A. C. and GOLDMAN, L. Bile acids and hepatic blood flow, 1941, 132: 375
- , OSBORNE, S. L., JOHNSON, F. R., ARANA, S. and IVY, A. C. Electrical stimulation and atrophy of denervated muscle, 1944, 142: 222
- , OSBORNE, S. L., JOHNSON, F. R. and IVY, A. C. Stimulation of denervated skeletal muscle, 1944, 142: 216
See MORGAN, D. P.
See OSBORNE, S. L.
- GROLLMAN, A. Adrenal cortex and carbohydrate metabolism, 1938, 122: 460
- Experimental chronic hypertension in rabbit, 1944, 142: 666
- Experimental hypertension in the dog, 1946, 147: 647
- Pregnancy and hypertension, 1947, 151: 373
- and RULE, C. Induced hypertension in parabiotic rats, 1943, 138: 587
- , HARRISON, T. R. and WILLIAMS, J. R., JR. Experimental renal hypertension in the rat, 1943, 139: 293
- , MUIRHEAD, E. E. and VANATTA, J. Kidney and pathogenesis of hypertension, 1949, 157: 21
- , TURNER, L. B., LEVITCH, N. and HILL, DOROTHY. Hemodynamics after nephrectomy, 1951, 165: 167
See GERSH, I.
See HARRISON, T. R.
See LARAMORE, DOROTHY C.
See TURNER, L. B.
See VANATTA, J.
See WILLIAMS, J. R., JR.
- GROODY, MARY: *see* MORGAN, AGNES F.
See WEAST, ELSIE O.
- GROS, G.: *see* HWANG, W.
- GROSS, E. G.: *see* FEATHERSTONE, R. M.
See WINTER, C. A.
- GROSS, I. H.: *see* DE BODO, R. C.
- GROSS, J.: *see* LEBLOND, C. P.
- GROSS, J. B.: *see* DAVIS, J. E.
- GROSSBERG, A. L., KOMAROV, S. A. and SHAY, H. Mucoproteins of gastric juice, 1950, 162: 136
- , KOMAROV, S. A. and SHAY, H. Proteins and gastric juice, 1951, 165: 1
- GROSSMAN, E. B.: *see* WILLIAMS, J. R., JR.
- GROSSMAN, M. I. and ROBERTSON, CHARLOTTE R. Histaminase and gastric secretion, 1948, 153: 447

- , CUMMINS, G. M. and IVY, A. C. Insulin and food intake, 1947, 149: 100
- , GREENGARD, H. and IVY, A. C. Adaptation of pancreatic enzymes to diet, 1944, 141: 38
- , GREENGARD, H. and IVY, A. C. Pancreatic enzymes and composition of diet, 1943, 138: 676
- , GREENGARD, H., WOOLLEY, JEAN R. and IVY, A. C. Pepsin secretion and enterogastrone, 1944, 141: 281
- , ROBERTSON, CHARLOTTE R. and IVY, A. C. Hormone for gastric secretion, 1948, 153: 1
- , WOOLLEY, JEAN R. and IVY, A. C. Pepsin content of hormonal stimulated gastric juice, 1944, 141: 506
- See ANTIA, F.
- See BLICKENSTAFF, D.
- See CANEPA, J. F.
- See GREENGARD, H.
- See HANSON, M. E.
- See HARRIS, S. C.
- See HARTIALA, K.
- See HWANG, K.
- See JANOWITZ, H. D.
- See KAMMERLING, E.
- See LANGLOIS, K. J.
- See MACK, I.
- See MORRIS, C. R.
- See NEWMAN, E. A.
- See ROBACK, R. A.
- See ROBERTSON, CHARLOTTE R.
- See SANGSTER, W.
- See WANG, C. C.
- See WILBURNE, M.
- GROSSMAN, M. S. and PENROD, K. E. Hypothermia and high O₂ poisoning, 1949, 156: 177
- and PENROD, K. E. Thyroid and high O₂ poisoning, 1949, 156: 182
- GROSSMAN, N., KONDO, B. and KATZ, L. N. Location and shape of right atrium, 1947, 148: 229
- GROUND SQUIRREL
- blood changes during hibernation, 1951, 167: 633
- blood picture in activity and hibernation, 1942, 137: 431
- carbon dioxide in hibernation, 1951, 167: 638
- respiration of brown adipose tissue in, 1941, 133: 56
- GROVER, R. F.: *see* GOLDENSOHN, E. S.
- GROWTH
- blood, plasma volume partition, 1944, 141: 703
- cobalt polycythemia, 1940, 130: 374
- depression due to estrogens, 1949, 159: 281
- excess vitamin D, A, 1947, 149: 323
- excessive potassium, 1948, 153: 432
- female reproductive condition, 1940, 128: 360
- fluoride poisoning, 1939, 126: 715
- glycolysis in C.N.S., 1944, 142: 545
- heat loss, 1939, 125: 38
- heat, thiamin intake, 1945, 144: 643
- high frequency radio waves, 1946, 147: 281
- in dogs on purified diet, 1945, 145: 24
- metabolism in pigeons, 1938, 122: 480
- muscle strength, 1940, 128: 523

- NaCl intake, 1946, 147: 340
- of fetus, placental permeability, 1946, 147: 360
- of young pigs on artificial diets, 1939, 126: 375
- pattern of serum proteins during, 1941, 132: 362
- phosphorus metabolism, 1942, 138: 176
- plasma protein, hemoglobin, 1944, 142: 97
- protein and fat of diet, 1945, 145: 160
- protein consumption, 1951, 165: 491
- rate, metabolic rate, body size, 1950, 161: 294
- recovery from starvation, 1951, 166: 566
- renin, 1950, 162: 381
- repeated anoxia, 1942, 137: 612
- requirements, selfselection method, 1938, 122: 734
- riboflavin deficiency, 1940, 128: 704
- seasonal changes in, 1945, 143: 428
- sodium, potassium, 1950, 162: 182
- stilbestrol, estrone, 1945, 144: 363
- thymectomy, 1940, 130: 672
- thyroid feeding, 1945, 145: 18
- tin and growth of goldfish, 1940, 130: 666
- GROWTH HORMONE
- anti-insulin effect of, 1950, 163: 310
- blood amino acids 1940, 128: 774
- comparison with testosterone propionate, 1950, 160: 66
- experimental hypertension, 1951, 166: 533
- glycogen stores, 1943, 140: 453
- growth, 1939, 125: 750
- hypoglycemia, 1944, 141: 89
- ketosis, 1948, 152: 210
- kidney function, 1949, 157: 47
- liver arginase, 1943, 138: 443
- liver weight, 1942, 135: 401
- metabolism, 1948, 155: 18; 1948, 155: 24
- nitrogen balance, 1951, 166: 356
- nitrogen excretion of diabetic rats, 1947, 150: 402
- nitrogen storage, 1951, 165: 486
- N.P.N. of blood, 1942, 137: 207
- pancreatic insulin, 1942, 135: 406
- parabiosis, 1950, 163: 297
- protein metabolism, 1942, 136: 132
- recovery from starvation, 1951, 166: 568
- renotropic effects of, 1951, 165: 442
- response of hypophysectomized rats to, 1942, 135: 616
- sodium excretion, 1951, 165: 429
- testosterone and, protein anabolism, 1948, 155: 255
- urinary nitrogen, 1942, 137: 547
- GRUBBS, R. C.: *see* HITCHCOCK, F. A.
- GRUBER, C. M.: *see* GRUBER, C. M., JR.
- GRUBER, C. M., JR. and GRUBER, C. M. Cardiac vagus nerve and barbituric acid, 1940, 129: 14
- GRUHN, J. G.: *see* BRANDT, J. L.
- GRUHZIT, C. C.: *see* FREYBURGER, W. A.
- GRUMBACH, L. and WILBER, D. T. Post-tetanic potentiation and suppression, 1940, 130: 433
- GRUMMER, R. H.: *see* MEYER, J. H.
- GRUNDFEST, H. Properties of mammalian B fibers, 1939, 127: 252
- and GASSER, H. S. Mammalian nerve fibers of slowest conduction, 1938, 123: 307

- GRUNDFEST, H. and MAGNES, J. Electrotonic excitability in dorsal roots, 1951, 164: 502
 — See GASSER, H. S.
 — See MIDDLETON, S.
- GRUNDY, W. E.: see BERRYMAN, G. H.
- GRUNERT, R. R. and PHILLIPS, P. H. Glutathione and ACTH, 1951, 165: 574
 —, MEYER, J. H. and PHILLIPS, P. H. Tissue glutathione, 1951, 165: 568
 — See MEYER, J. H.
- GUANIDOACETIC ACID
 reabsorption of by renal tubules, 1949, 157: 14
- GUANINE
 ultraviolet irradiation, 1951, 167: 367
- GUERRANT, J. L.: see LANDIS, E. M.
- GUEST, G. M.: see MACKLER, B.
- GUEST, M. M., MURPHY, R. C., BODNAR, S. R., WARE, A. G. and SEEGER, W. H. Plasma factor, blood pressure and leucopenia, 1947, 150: 471
 —, WARE, A. G. and SEEGER, W. H. Antifibrinolytic and pteroylglutamic acid, 1947, 150: 661
 — See WARE, A. G.
- GUEST, S. I.: see MANN, L. S.
- GUILD, RUTH: see CANZANELLI, A.
 — See RAPPORT, D.
- GUINEA PIG
 acclimatization to high oxygen, 1944, 142: 468
 action potentials in, 1938, 124: 507; 1945, 144: 693; 1946, 146: 499
 adrenaline-thyroxine interaction in, 1950, 161: 550
 alleviation of acceleratory force effect, 1946, 146: 39
 ammonium pulmonary edema in, 1949, 158: 1
 ascorbic acid in, 1940, 130: 310; 1941, 133: 83; 1946, 145: 568; 1946, 147: 598; 1948, 152: 446
 bile salts and intestinal motility, 1948, 153: 386
 bone and tissue phosphatase in, 1942, 135: 487
 capillary permeability in, 1946, 146: 130; 1948, 153: 503; 1950, 161: 283
 carbohydrate metabolism in, 1940, 131: 522; 1943, 138: 750
 cardiovascular response to rapid decompression, 1946, 147: 289
 central nervous system and reproductive cycle in, 1939, 126: 758
 cholinesterase in, 1945, 144: 82; 1946, 146: 246
 chromatolysis and oxygen consumption of spinal cord, 1944, 141: 421
 concussion and polarizability of brain in, 1946, 146: 17
 development of resistance to trauma in, 1943, 138: 346
 effects of acetylcholine, 1938, 122: 631; 1945, 144: 190; 1950, 162: 606
 epinephrine and adrenergic drugs, 1943, 138: 566; 1950, 162: 231
 fibrinolysin in, 1947, 150: 474
 high frequency radio waves, 1946, 147: 281
 ions on respiration of brain cortex, 1942, 135: 309
 radiation syndrome on, 1950, 162: 703
 steroids, 1948, 155: 242; 1948, 155: 251
 thyroxine on heart, 1947, 148: 692
 exophthalmos in, 1938, 121: 620; 1943, 140: 308
 fat metabolism in, 1943, 138: 264; 1946, 147: 746; 1947, 149: 1
 fetal circulation in, 1942, 136: 141; 1950, 162: 147
 fluid convection in endoneural spaces, 1945, 143: 321
 gall bladder motility in, 1941, 132: 136
 gastro-intestinal tract in, 1939, 127: 301; 1941, 132: 297; 1946, 145: 677; 1948, 152: 455
 glomerular and tubular fluid in, 1941, 134: 562; 1941, 134: 584
 glutathione and adrenal cortex, 1951, 164: 770
 gravitational shock in, 1951, 165: 540
 heart in, 1942, 136: 332; 1942, 136: 547; 1951, 166: 585
 hemorrhagic shock in, 1946, 147: 591
 histaminase in, 1946, 146: 58
 histamine studies in, 1939, 127: 78; 1940, 129: 735; 1941, 131: 768; 1942, 135: 373; 1951, 166: 462; 1951, 167: 269
 hypothalamic lesions, 1940, 129: 39; 1941, 133: 551
 hypothermia in, 1949, 157: 103
 inflammation in, 1951, 166: 340
 iodine fixation in thyroid, 1941, 134: 550
 lung edema and hemorrhage in, 1949, 158: 429
 maternal plasma as source of iron, 1950, 161: 202
 metabolism of, 1940, 129: 128; 1940, 129: 728
 naturally occurring inhibitors and lysins in, 1951, 164: 467
 nervous control of esophagus, 1948, 154: 348
 phosphorous compounds in nervous system, 1951, 164: 1
 placental permeability in, 1941, 132: 594; 1941, 134: 342; 1942, 136: 750; 1942, 136: 757; 1946, 147: 360
 plasma prothrombin level in, 1939, 125: 297
 pregnancy in, 1938, 122: 34; 1942, 135: 349
 prothrombin and α -globulin in, 1948, 154: 136
 pulmonary edema following vagotomy, 1948, 152: 585
 relaxation of pelvic ligatures in, 1947, 151: 134
 renal tubular secretion of phenol red, 1950, 161: 259
 respiration in, 1947, 150: 76; 1947, 150: 79
 response of infant to stress, 1941, 134: 284; 1944, 140: 613; 1951, 166: 77
 scurvy in, 1947, 149: 465; 1950, 161: 283
 test of pregnancy urine in, 1940, 128: 425
 thirst and its inhibition, 1950, 161: 374
 thyroid and gastric function, 1951, 166: 131
 tissue respiration, 1939, 127: 290; 1939, 127: 296; 1941, 132: 564; 1942, 135: 316; 1944, 142: 396; 1947, 148: 512
 tolerance to heat and dehydration, 1947, 151: 564
 toxicity of D-L substance to, 1950, 161: 564
 toxicity of sea water, 1950, 163: 370
 transcapillary exchange of chloride in, 1949, 158: 231
 uterine motility in, 1939, 125: 547
 vagotomy and pulmonary edema, 1949, 157: 130
 vitamin E in neuromuscular atrophy and regeneration, 1943, 139: 183
- GULLBERG, J. E., OLIMSTED, J. M. D. and WAGMAN,

- I. H. Reciprocal innervation of pupillary muscles, 1938, 122: 160
 — See WAGMAN, I. H.
- GULLBERG, MARY G.: see AXELROD, HELEN E.
- GUM ACACIA: see ACACIA (GUM)
- GUM TRAGACANTH: see TRAGACANTH (GUM)
- GUNN, F. D.: see LI, T-W.
- GUNNING, R. E.: see SHULER, R. H.
- GUNTHER METHOD
 intramuscular pressure measurement, 1947, 150: 489
- GUNTHER, L. and MEEKER, W. R. Human plasma and venopressor mechanism, 1944, 141: 102
- , HENSTELL, H. H. and JOHN, E. Intramuscular pressure during life and after death, 1943, 139: 161
- GURD, F. N., VARS, H. M. and RAVDIN, I. S. Composition of regenerating liver, 1948, 152: 11
 — See VARS, H. M.
- GURDJIAN, E. S., WEBSTER, J. E. and STONE, W. E. Cerebral constituents and blood gases, 1949, 156: 149
- , WEBSTER, J. E. and STONE, W. E. Cerebral O₂ and CO₂ tensions, 1948, 155: 191
- GUSTATORY NERVES: see LINGUAL NERVES
- GUSTAVSON, R. G. see KOENIG, V. L.
 — See LANGHAM, W.
- GUTMAN, A. B.: see KRITZLER, R. A.
- GUTMANN, H., OLSON, W. H., LEVINSON, S. O. and NECHLES, H. Isotonic serum and saline infusion after trauma, 1942, 137: 355
- GUY, E. L.: see ASHWORTH, C. T.
- GUYTON, A. C. Cerebral ischemia and hypertension, 1948, 154: 45
 — Respiratory patterns in laboratory animals, 1947, 150: 78
 — Respiratory volumes of laboratory animals, 1947, 150: 70
 — and GILLESPIE, W. M., JR. Constant infusion of epinephrine, 1951, 165: 319
 — and HARRIS, J. W. Pressoreceptor-autonomic oscillation, 1951, 165: 158
 — and SATTERFIELD, J. Electrical defibrillation of heart, 1951, 167: 81
 —, BATSON, H. M. and SMITH, C. M. Rapid transfusion and hemorrhage, 1951, 164: 351
 —, BATSON, H. M., SMITH, C. M. and ARMSTRONG, G. G. Blood pressure regulatory mechanisms, 1951, 164: 360
 —, LINDLEY, J. E., TOUCHSTONE, R. N., SMITH, C. M. and BATSON, H. M. Massive transfusion and hemorrhage, 1950, 163: 529
- GYNERGENE: see ERGOTAMINE
- GYÖRGY, P., ROBSCHT-ROBBINS, F. S. and WHIPPLE, G. H. Lactoflavin and hemoglobin production in anemia, 1938, 122: 154
 — See HAANES, MARY LOU
 — See RHODES, J. E.
- HACK, M. H.: see LEIMDORFER, A.
- HACKEL, D. B.: see STREICHER, E.
- HADDEN, G.: see WEST, T. C.
- HADDOCK
 digestion of in dog, 1941, 135: 12
- HADDY, F. J., CAMPBELL, G. S., ADAMS, W. L. and VISSCHER, M. B. Pulmonary artery and vein pressures, 1949, 158: 89
 —, CAMPBELL, G. S. and VISSCHER, M. B. Hyperthermia and pulmonary edema, 1949, 158: 429
 —, CAMPBELL, G. S. and VISSCHER, M. B. Lung vessel pressures and edema, 1950, 161: 336
 — See CAMPBELL, G. S.
- HADIDIAN, Z.: see HIMWICH, H. E.
- HAEGE, LORRAINE F. see FENN, W. O.
 — See MANERY, JEANNE F.
 — See MULLINS, L. J.
 — See NOONAN, T. R.
 — See PIERCE, H. B.
- HAFFENREFFER, VIRGINIA K.: see HEGSTED, D. M.
- HAFKENSCHIEL, J. H. see ECKENHOFF, J. E.
 — See GOODALE, W. T.
- HAGSTRÖMER, A.: see COPE, O.
- HAHN, P. F. Estimation of the red cell mass, 1944, 141: 363
 — and BALE, W. F. Radio-iron in evaluating jugular hematocrit, 1942, 136: 314
 —, BALE, W. F. and BALFOUR, W. M. Radioactive iron in study of total blood volume, 1942, 135: 600
 —, BALE, W. F. and BONNER, J. F., JR. Adrenaline and venous hematocrit value, 1942, 137: 717
 —, BALE, W. F. and BONNER, J. F., JR. Red cells contained in spleen, 1943, 138: 415
 —, DONALD, W. D. and GREER, R. C., JR. Bilaterality of portal circulation, 1945, 143: 105
 —, JONES, E., LOWE, R. C., MENEELY, G. R. and PEACOCK, W. Utilization of ferrous and ferric iron in anemia, 1945, 143: 191
 — See CRUZ, W. O.
 — See DOW, P.
 — See MENEELY, G. R.
 — See POMMERENKE, W. T.
 — See SHEPPARD, C. W.
 — See WHEELER, B.
- HAILMAN, H. F. Vitamin B complex and resistance to anoxia, 1944, 141: 176
 — See GELLHORN, E.
 — See KESSLER, M.
- HAIMOVICI, H. Sympathetic system and specific dynamic action, 1939, 127: 642
 — and HODES, R. Preganglionic nerve regeneration after sympathectomy, 1940, 128: 463
 — See CANNON, W. B.
- HAIR
 clipping, acclimatization and survival to cold after, 1951, 165: 481
 growth, irritants, 1940, 129: 554
 oxygen consumption of skin, 1943, 138: 410
 inhibition of growth by estrogens, 1949, 159: 118
 zinc of, 1938, 124: 753

- HAIST, R. E. and BELL, H. J. Adrenalectomy, gonadectomy, and insulin of pancreas, 1944, 141: 606
 — and PUGH, E. J. Volume of islands of Langerhans, 1948, 152: 36
 — See EVANS, MARGARET A.
- HALD, PAULINE M., HEINSEN, A. J. and PETERS, J. P. Distribution of water and salts in blood, 1948, 152: 77
 —, TULIN, M., DANOWSKI, T. S., LAVIETES, P. H. and PETERS, J. P. Sodium and potassium in oxygenated human blood, 1947, 149: 340
 — See DANOWSKI, T. S.
 — See PETERS, J. P.
 — See TULIN, M.
- HALDI, J. and GIDDINGS, G. Tissue hydration on carbohydrate and fat diets, 1940, 128: 537
 — and WYNN, W. Blood sugar levels after ingestion of sucrose, 1947, 150: 263
 — and WYNN, W. Effect of means on blood sugar and work performance, 1946, 145: 402
 —, BACHMANN, G., ENSOR, C. R. and WYNN, W. Muscular efficiency relative to taking of food, 1938, 121: 123
 —, GIDDINGS, G. and WYNN, W. B. complex deficiency and water balance, 1944, 141: 83
 —, GIDDINGS, G. and WYNN, W. Dietary control of water content of skin, 1942, 135: 392
 — See BACHMANN, G.
 — See WYNN, W.
- HALL, F. G. *see* DILL, D. B.
 — See FORBES, W. H.
- HALL, J. F., JR. Effect of sulfonamides on blood, 1944, 140: 483
- HALL, P. W., III and SELKURT, E. E. Venous obstruction and salt clearance, 1951, 164: 143
 — See SELKURT, E. E.
- HALL, V. E. and MÜLLER, O. H. Adrenal cortical extract and spontaneous activity, 1938, 121: 537
 —, CHAMBERLIN, P. E. and MÜLLER, O. H. Adrenal cortical hormone and reproduction, 1938, 122: 16
 — See ALLEN, S. C.
 — See ELLIS, F. A.
 — See FISHGOLD, J. T.
 — See PEISS, C. N.
- HALL, W. K., DOTY, J. R. and EATON, A. G. Threonine in formation of carbohydrate, 1940, 131: 252
- HALL, W. M. and COREY, E. L. Anoxia in explosive decompression, 1950, 160: 361
- HALLARAN, W. R.: *see* WRIGHT, G. W.
- HALLENBECK, G. A. Nervous and humoral factors in gastric secretion, 1943, 139: 329
 —, DWORETZKY, M. and CODE, C. F. Pancreatic histamine content, 1950, 162: 115
 — See CODE, C. F.
- HALLMAN, LOIS: *see* BEVETTA, L.
- HALPERIN, M. H.: *see* McFARLAND, R. A.
- HAMBOURGER, W. E.: *see* COOK, D. L.
- HAMILTON-REMINGTON PROCEDURE
 comparison with direct method for cardiac output, 1948, 154: 290
- HAMILTON, ANGIE S. Iso-agglutination in dog blood, 1948, 154: 525
 — and COLLINS, D. A. Renal humoral mechanism in hemorrhage and shock, 1942, 136: 275
 —, PARKINS, W. M. and WALTZER, F. Infusion fluids in treatment of hemorrhage, 1947, 150: 641
 — See COLLINS, D. A.
- HAMILTON, J. G. Absorption of radioactive isotopes, 1938, 124: 667
 — and ALLES, G. A. Natural and artificial radioactivity, 1939, 125: 410
 — and SOLEY, M. H. Iodine metabolism, 1939, 127: 557
 — and SOLEY, M. H. Thyroid iodine metabolism with use of radio-iodine, 1940, 131: 135
- HAMILTON, MARY A.: *see* GESELL, R.
- HAMILTON, P. B., PHILLIPS, R. A. and HILLER, ALMA. Renal ischemia in dogs, 1948, 152: 517
 — See DOLE, V. P.
 — See PHILLIPS, R. A.
 — See WASTENEYS, H.
- HAMILTON, S. L.: *see* GELLHORN, E.
 — See KIELY, W. F.
- HAMILTON, W. F. Patterns of the arterial pressure pulse, 1944, 141: 235
 — and DOW, P., Standing waves of blood pressure in aorta, 1939, 125: 48
 — and MAYO, J. P. Vital capacity with body immersed in water, 1944, 141: 51
 — and REMINGTON, J. W., Measurement of stroke volume from pressure pulse, 1947, 148: 14
 — and REMINGTON, J. W. Regulation of stroke volume of heart, 1948, 153: 287
 — and REMINGTON, J. W. Time concentration curves in arterial blood, 1947, 148: 35
 —, BRIGGS, A. P. and BUTLER, R. E. Tests for color vision and vitamin A, 1944, 140: 578
 —, DOW, P. and REMINGTON, J. W. Cardiac ejection curve and ballistocardiographic forces, 1945, 144: 557
 —, PUND, E. R., SLAUGHTER, R. F., SIMPSON, W. A., JR., COLSON, G. M., COLEMAN, H. W. and BATEMAN, W. H. Blood pressure values in street dogs, 1940, 128: 233
 —, REMINGTON, J. W. and DOW, P. Propagation velocity of arterial pulse wave, 1945, 144: 521
 —, REMINGTON, J. W. and HAMILTON, W. F., JR. Heart size in intact animal, 1950, 163: 260
 —, RILEY, R. L., ATTYAH, A. M., COURNAND, A., FOWELL, D. M., HIMMELSTEIN, A., NOBLE, R. P., REMINGTON, J. W., RICHARDS, D. W., JR., WHEELER, N. C. and WITHAM, A. C. Fick and injection methods, 1948, 153: 309
 —, WOODBURY, R. A. and HARPER, H. T., JR. Effect of cough and strain on circulatory pressures, 1944, 141: 42
 —, WOODBURY, R. A. and VOGT, E. Differential pressures in lesser circulation, 1939, 125: 130
 — See DOW, P.
 — See HAMILTON, W. F., JR.
 — See NAHUM, L. H.
 — See REMINGTON, J. W.

- See SHULER, R. H.
 — See VOLPITTO, P. P.
 — See WOODBURY, R. A.
 HAMILTON, W. F., JR., DOW, P. and HAMILTON, W. F.
 Heart volume, 1950, 161: 466
 — See HAMILTON, W. F.
 — See REMINGTON, J. W.
 HAMLIN, E. and GREGERSEN, M. I. Sympathetic system and plasma volume, 1939, 125: 713
 HAMMERSTROM, R. N.: see NICKERSON, M.
 HAMOLSKY, M. W., GIERLACH, Z. S. and JENSEN, H.
 Radioactive iodine and thyroid gland, 1951, 164: 35
 HAMPEL, C. W. see KENNARD, MARGARET A.
 — See SAWYER, M. E. MACK.
 HAMPTON, J. K., JR. and MAYERSON, H. S. Production of ferritin, 1950, 160: 1
 HAMSTER
 adrenalectomy in, 1951, 167: 328
 effects of androgens on, 1948, 153: 210
 hibernation, 1950, 163: 566; 1951, 157: 633; 1951, 167: 638
 hypothermia, 1948, 155: 179; 1951, 166: 65; 1951, 166: 75; 1951, 166: 92
 oxygen consumption in, 1951, 166: 99
 respiration in, 1947, 150: 76; 1947, 150: 79; 1951, 166: 97
 round-window response in, 1950, 163: 213
 thirst and its inhibition, 1950, 161: 374
 HAND STEADINESS TEST
 B vitamin restrictions, 1946, 147: 44
 HAND VOLUME: see HANDS, volume
 HANDLER, P. and BERNHEIM, F. Choline deficiency and renal hypertension, 1950, 162: 375
 — and BERNHEIM, F. Diet in experimental renal hypertension, 1950, 160: 31
 — and BERNHEIM, F. Dietary factors and hypertension, 1950, 162: 189
 — and BERNHEIM, F. Dietary protein in renal hypertension, 1950, 162: 368
 — and BERNHEIM, F. Pituitary on renal hypertension, 1951, 166: 528
 — and COHN, D. V. Plasma phosphate, 1951, 164: 646
 — and GEORGIADIS, RUTH S. Dietary protein and blood sugar regulation, 1951, 164: 131
 —, COHN, D. V. and DEMARIA, W. J. A. Parathyroid and phosphate excretion, 1951, 165: 434
 — See KAMIN, H.
 HANDLEY, C. A. and KELLER, A. D. Renal function and anterior pituitary, 1950, 160: 321
 —, SIGAFOOS, R. B. and LA FORGE, M. Glomerular filtration and tubular transport, 1949, 159: 175
 —, SWEENEY, H. M., SCHERMAN, Q. and SEVERANCE, R. Metabolism of the perfused dog's brain, 1943, 140: 190
 — See HUGGINS, R. A.
 — See MOYER, J. H.
 HANDS
 heat exchange and blood flow in, 1946, 146: 605
 volume, recording of, 1939, 125: 313
 HANDS, A. P.: see BUTLER, D. B.
 HANEY, H. F. and LINDGREN, A. J. Acetylcholine and atropinized denervated heart, 1945, 145: 177
 —, LINDGREN, A. J., KARSTENS, A. I., and YOUmans, W. B. Blood pressure and vagus control of cardiac activity, 1943, 139: 675
 —, LINDGREN, A. J. and YOUmans, W. B. Vagal cardio-accelerator fibers, 1945, 144: 513
 —, ROLEY, W. C. and COLE, P. A. Bile and intestinal juice, 1940, 131: 256
 —, ROLEY, W. C. and COLE, P. A. Bile and propulsive motility of intestine, 1939, 126: 82
 — See YOUmans, W. B.
 HANSEN, E. T.: see GESELL, R.
 HANSON, M. E., GROSSMAN, M. I. and IVY, A. C. Histamine and gastric secretion. 1948, 153: 242
 — See JANOWITZ, H. D.
 HANVEY, R. V.: see CRISMON, CATHRINE A.
 HARDENBERGH, ESTHER: see BRAUER, R. W.
 — See BROWN, C. S.
 — See DRINKER, C. K.
 — See HAYNES, FLORENCE W.
 — See MUUS, J.
 — See SARNOFF, S. J.
 HARDERIAN GLAND
 cholinesterase in, 1947, 148: 677
 HARDWICKE, H. M.: see BLAIR, H. A.
 HARDY, J. D. Radiating power of human skin in infrared, 1939, 127: 454
 — See HERGET, C. M.
 HARE, K. Activity in isolated sympathetic ganglia, 1941, 134: 251
 —, HICKEY, R. C. and HARE, RUTH S. Renal excretion of an antidiuretic substance, 1941, 134: 240
 —, PHILLIPS, D. M., BRADSHAW, J., CHAMBERS, G. H. and HARE, RUTH S. Diuretic action of thyroid in diabetes insipidus, 1944, 141: 187
 — See CHAMBERS, G. H.
 — See FARR, L. E.
 — See GEOHEGAN, W. A.
 — See HARE, RUTH S.
 HARE, RUTH S., HARE, K. and PHILLIPS, D. M. Renal excretion of chloride in diabetes insipidus, 1943, 140: 334
 — See CHAMBERS, G. H.
 — See HARE, K.
 HARKINS, H. N. Sodium therapy of experimental tourniquet shock, 1947, 148: 538
 — and LONG, C. N. H. Metabolic changes in shock after burns, 1945, 144: 661
 HARKNESS, D. M.: see BERRYMAN, G. H.
 HARMAN, H. H.: see GRAY, J. S.
 HARMEL, M. H.: see ECKENHOFF, J. E.
 HARMON, P. M.: see ROBINSON, S.
 HARPER, A. A.: see DAVIES, R. E.
 HARPER, H. A.: see BERRYMAN, G. H.
 HARPER, H. T., JR.: see HAMILTON, W. F.
 HARPUDER, K., BYER, J. and STEIN, I. D. Adrenaline injection and blood flow, 1947, 150: 181
 — See STEIN, I. D.
 HARRIS, A. M.: see DAVIS, J. E.

- HARRIS, A. S. Inspiratory tonus in anoxia, 1945, 143: 140
- Plantar reflexes in terms of afferent fibers, 1938, 124: 117
- Spread of excitation in cardiac ventricles, 1941, 134: 319
- and KOKERNOT, R. H. Ectopic activity and drugs, 1950, 163: 505
- and MADJEREK, Z. Ca and turtle heart, 1948, 153: 402
- and MATLOCK, W. P. Effects of anoxemic anoxia on heart muscle, 1947, 150: 493
- and MOE, G. K. Cardiac idioventricular rhythms and fibrillation, 1942, 136: 318
- and RANDALL, W. C. Electrocardiographic changes observed in anoxia, 1944, 142: 452
- , ESTANFIA, A. and TILLOTSON, R. F. Ectopic rhythms and sympathectomy, 1951, 165: 505
- See MOE, G. K.
- HARRIS, F. D.: see HARTMANN, A. F., JR.
- HARRIS, J. S. and DEMARIA, W. J. A. Magnesium sulfate and renal dynamics, 1951, 166: 199
- HARRIS, J. W.: see GUYTON, A. C.
- HARRIS, L. C.: see LACKEY, R. W.
- HARRIS, P. L.: see DJU, MEI Y.
- HARRIS, R. E. and INGLE, D. J. Adrenal medulla and capacity for muscular activity, 1940, 130: 151
- HARRIS, S. C., GROSSMAN, M. I. and IVY, A. C. Vagus nerves in inhibition of gastric motility, 1947, 148: 338
- HARRISON, F. and CORBIN, K. B. Central pathway for the jaw-jerk, 1942, 135: 439
- , MAGOUN, H. W. and RANSON, S. W. Thresholds of stimulation in brain stem, 1938, 121: 708
- , WANG, S. C. and BERRY, C. M. Decussations of sympathetic fibers from hypothalamus, 1939, 125: 449
- See WANG, S. C.
- HARRISON, H. E. and DARROW, D. C. Renal function in experimental adrenal insufficiency, 1939, 125: 631
- and HARRISON, HELEN C. Acidosis and renal tubular reabsorption of phosphate, 1941, 134: 781
- and HARRISON, HELEN C. Dihydratachysterol and vitamin D in rachitic dog, 1942, 137: 171
- HARRISON, HELEN C.: see HARRISON, H. E.
- HARRISON, R. C.: see BIGELOW, W. G.
- HARRISON, T. R., GROLLMAN, A. and WILLIAMS, J. R., JR. Anti-pressor action of renal extracts, 1940, 128: 716
- See GROLLMAN, A.
- See WILLIAMS, J. R., JR.
- HARRISON, W.: see BLOOMER, W. E.
- HARRISON, J. W. E.: see AMBRUS, J. L.
- HART, E. B.: see Frost, D. V.
- See HOVE, E.
- See MAASS, A. R.
- See RUEGAMER, W. R.
- See TERESI, J. D.
- See WACHTEL, L. W.
- HART, E. R.: see MUNRO, F. L.
- HART, G. H.: see COLE, H. H.
- HART, W. M. and ESSEX, H. E. Role of cloaca in water metabolism of chicken, 1942, 136: 657
- HARTIALA, K., IVY, A. C. and GROSSMAN, M. I. Cinchophen and duodenal secretion, 1950, 162: 110
- , MAGEE, D. F. and GROSSMAN, M. I. Cinchophen and pancreatic secretion, 1950, 163: 34
- HARTLINE, H. K. Optic nerve fiber response to retinal illumination, 1938, 121: 400
- Receptive fields of optic nerve fibers, 1940, 130: 690
- Spatial summation in retina and optic nerve response, 1940, 130: 700
- HARTMAN, C. G.: see CARPENTER, T. M.
- HARTMAN, F. A. and BROWNELL, KATHARINE A. Response to chilling after adrenalectomy, 1944, 141: 651
- See BROWNELL, KATHARINE A.
- See HERMANSON, VIRGINIA
- See HITCHCOCK, F. A.
- See HORVATH, S. M.
- See SPOOR, H. J.
- HARTMAN, F. W.: see BEHRMANN, VIVIAN G.
- HARTMANN, A. F., JR., HARRIS, F. D., MARTIN, H. F., ROLF, DORIS and WHITE, H. L. Hypophysectomy and ammonia excretion, 1951, 167: 563
- HARTROFT, W. S.: see WRENSHALL, G. A.
- HARVARD STEP-UP TESTS
- height of step and pulse rate, 1946, 145: 524
- pulse reaction to, 1946, 145: 520
- training and response, 1946, 146: 423
- HARVEY, R. B.: see CAMPBELL, G. S.
- HASKINS, A. L., JR.: see KOCHAKIAN, C. D.
- HASSETT, C. C.: see DENSLOW, J. S.
- HASTINGS, A. B.: see FLINK, E. B.
- See LOWRY, O. H.
- See LYMAN, C. P.
- See MULLIN, F. J.
- See PEARSON, O. H.
- See WESTERFELD, W. W.
- HATCH, DOROTHY: see HUMOLLER, F. L.
- HATCH, T. F.: see NELSON, N.
- HATERIUS, H. O. Pituitary and experimental control of water diuresis, 1940, 128: 506
- and FERGUSON, J. K. W. Hormonal nature of oxytocic principle of hypophysis, 1938, 124: 314
- and MAISON, G. L. Hypothermia and rewarming, 1948, 152: 225
- See HEGNAUER, A. H.
- HATHAWAY, S. R.: see HEMINGWAY, A.
- HAURY, V. G.: see CANTAROW, A.
- HAUSER, P. J.: see REINECKE, R. M.
- HAUSNER, E., ESSEX, H. E., HERRICK, J. F. and BALDES, E. J. Coronary blood flow in the heart-lung preparation, 1940, 131: 43
- , ESSEX, H. E. and MANN, F. C. X-ray study of dog spleen under anesthesia, 1938, 121: 387
- HAWKES, C. D.: see RICHTER, C. P.
- HAWKINS, J. E., JR.: see GREEN, H. D.
- See LITTLE, J. M.
- See MADDOCK, S.
- HAWKINS, ROSEMARY D.: see MENDEL, B.

- HAWKINS, W. B. and JOHNSON, A. C. Bile pigment and hemoglobin interrelation, 1939, 126: 326
 — and WHIPPLE, G. H. Life cycle of red blood cell, 1938, 122: 418
- HAWLEY, G.: *see* MASON, M. F.
- HAWLEY, J. G.: *see* LITTLE, R. C.
- HAY FEVER
 histamine-like substance in nasal secretions during, 1945, 144: 713
- HAY, ELEANOR C. and SEGUIN, PAULETTE. Nephrosclerosis by anterior pituitary treatment, 1946, 147: 299
- HAYES, M.: *see* LANDSTEINER, E. K.
- HAYES, R. L.: *see* BOOKER, W. M.
- HAYMAN, J. M., JR.: *see* BOBEY, M. E.
 — *See* INSULL, W., JR.
 — *See* STIER, P. L.
- HAYNES, FLORENCE W. and DEXTER, L. Renin and hypertension, 1947, 150: 190
 — and HARDENBERGH, ESTHER. Lymph flow and composition after infusion of renin, 1946, 146: 666
 — DEXTER, L. and SEIBEL, R. E. Renal humoral pressor mechanism in man, 1947, 150: 198
 — *See* HELLEMS, H. K.
- HAYS, H. W.: *see* DRILL, V. A.
 — *See* GAUNT, R.
 — *See* KLEINBERG, W.
 — *See* PARKINS, W. M.
 — *See* REMINGTON, J. W.
 — *See* SWINGLE, W. W.
- HAYWARD, S. J., POLLOCK, J. H. and LOEB, L. Hormones in formalin-treated anterior pituitary, 1939, 125: 113
 — *See* LOEB, L.
- HEAD
 injury in frog and shock, 1948, 155: 92
 rotation of, non-labyrinthine control, 1942, 135: 628
- HEAD-HEART PREPARATION
 diagram of, 1939, 126: 396
- HEAGAN, BEATRICE S.: *see* MILLER, R. A.
- HEAGY, F. C. and BURTON, A. C. Magnesium chloride and body temperature, 1948, 152: 407
- HEALING
 ascorbic acid excretion during, 1948, 152: 446
- HEARING
 ablation of certain cortical areas, 1945, 144: 415
 afferent connections to acoustic cortex, 1945, 144: 394
 anoxia, 1951, 164: 748
 lesions of the medial geniculate bodies, 1939, 125: 15
 pathways from medial geniculate body to acoustic cortex, 1946, 147: 311
 return of, after section of VII and VIII nerve in tree frog, 1945, 144: 738
- HEART
 action potentials of membrane, 1951, 164: 307
 of Purkinje tissue, 1951, 165: 174
 adrenotropic receptors in, 1948, 153: 590
 anterior cardiac veins and their function, 1943, 139: 732
 arrhythmia index, genetic variability of, 1951, 166: 20
 cardiac systole and cycle relationships, 1948, 154: 6
 cardio-accelerator fibers in vagus supply to, 1945, 144: 513
 cardiodynamics of normal and failing hearts, 1947, 150: 738
 chronic cardiac venous occlusion, 1939, 128: 179
 closure of A-V valves and atrial systole, 1951, 166: 292
 configuration of epicardial and endocardial extrasystoles, 1946, 145: 615
 coronary sinus catheterization of, 1948, 152: 340
 cycle, measurement of, 1950, 162: 213
 decompensation, strain and circulatory pressure, 1944, 141: 46
 determination of kinetic energy in, 1949, 159: 483
 differential effect of respiration on, 1942, 137: 620
 drive, venous return, 1946, 145: 443
 economy of effort index for, 1939, 126: 89
 ectopic rhythm and cardiac sympathectomy, 1951, 165: 505
 efficiency of, 1939, 126: 750
 during failure, 1946, 147: 28
 hypotension, work, 1948, 152: 545
 embryonic, physiology before circulation, 1942, 137: 146
 reaction to ouabain, 1938, 122: 753
 reactions of, 1948, 152: 219
 excitability throughout cardiac cycle, 1950, 162: 213
 experimental mitral insufficiency in, 1951, 165: 497
 experimental myocardial infarction in, 1951, 166: 603
 filling pressure in and intrathoracic pressures, 1947, 148: 435
 fractionate contractions of surface, 1941, 134: 514
 function, abnormalities of in man, 1939, 127: 1
 histochemical changes in muscle after coronary occlusion, 1942, 136: 474
 influence in hemorrhagic shock, 1942, 136: 421
 interatrial septal defect and mitral stenosis, 1951, 164: 573
 intra-abdominal pressure, 1947, 149: 297
 ion antagonism in, 1942, 136: 352
 load, coronary blood flow, 1944, 142: 46
 lymph flow in, 1940, 130: 43
 measurements of intramyocardial pressure, 1941, 132: 781
 model illustrating atrial septal defects, 1949, 158: 247
 nervous control of during cerebral anemia, 1940, 129: 585
 nomogram for contractility, 1951, 165: 525
 non-refractory phase of systole, 1940, 128: 709
 oxygenation of coronary blood during hypothermia, 1951, 164: 79
 patterns of function and age, 1951, 166: 87
 pH of, in vivo, 1946, 146: 4
 physiology, rewarming from hypothermia, 1951, 167: 69
 positional changes and electrokymogram, 1950, 163: 475
 recoil and blood impact, 1939, 127: 1
 reflexes from, 1951, 165: 263
 repair of patent ductus arteriosus, 1943, 139: 451

HEART

- resistance and input loads in cardiac energetics, 1941, 134: 636
- systolic discharge, during and after hemorrhagic shock, 1946, 147: 276
- thebesian and luminal vessels of, 1941, 132: 648
- vagal control of activity, 1943, 139: 677
- vagal stimulation of, 1949, 158: 31
- valves, lesions, coronary circulation, 1940, 130: 126
- venous drainage of, 1947, 151: 13
- HEART (RESPONSE TO—)
 - accommodation during vagal inhibition, 1939, 127: 333
 - acetylcholine, 1942, 136: 183; 1945, 144: 189; 1945, 145: 177
 - acid tolerance of, 1946, 146: 480
 - alkali tolerance of, 1947, 148: 4
 - anoxia, 1950, 160: 138
 - conduction in, 1944, 142: 452
 - B-complex deficiency, 1950, 161: 517
 - cardiovascular reflexes studied with tetraethylammonium, 1949, 157: 158
 - changes of inspired air, 1943, 138: 763
 - dibenamine in hemorrhage, 1950, 161: 116
 - drugs, ectopic activity, 1950, 163: 505
 - in hypotension, 1949, 157: 352
 - dry heat, 1943, 139: 583
 - 933 F and sympathin, 1938, 124: 62
 - heavy water and adrenaline, 1940, 129: 664
 - hemorrhage, 1950, 161: 111
 - tissue metabolites in, 1946, 147: 446
 - hypertonic solutions, 1948, 154: 328
 - hypothermia, 1950, 161: 455
 - ions, 1942, 136: 330
 - low atmospheric pressure and electrolyte content, 1944, 142: 63
 - methylene blue, indigosulfonate and metabolism, 1938, 122: 404
 - Na, Ca and K and coronary vessels, 1938, 124: 155
 - oxygen poisoning, 1939, 126: 189
 - oxytocic principle, 1944, 142: 116
 - pathology in acclimatization to high altitudes, 1951, 167: 265
 - piperido-methyl-3-benzodioxane, 1939, 126: 305
 - potassium, 1939, 127: 430
 - potassium deficiency, 1945, 145: 292
 - Rb or Cs added, 1943, 138: 247
 - scalds, 1944, 142: 369
 - semi-starvation, 1947, 150: 155
 - sino-auricular node, refractory response to adrenaline and related compounds, 1940, 130: 193
 - sinus-auricular rate and temperature, 1951, 167: 76
 - slowing due to hypertonic solutions, 1948, 154: 336
 - stellate ganglion stimulation and blood flow in, 1945, 143: 398
 - metabolism in, 1945, 143: 398
 - temperature change of epicardial surface, 1949, 159: 492
 - thiamin triphosphoric acid, 1949, 158: 279
 - thyreotropic hormone, 1938, 124: 110
 - thyroid compounds, 1944, 141: 35
 - thyroxin, 1947, 148: 694

- trauma and hemorrhage, 1947, 151: 34
- traumatic shock, 1950, 161: 125
- vagus, 1950, 162: 545
- vitamin E deficiency, 1946, 147: 477
- water moccasin venom, 1940, 130: 615

HEART AURICLES

- blood pressure in right, 1942, 136: 117
- elastic properties of, 1949, 158: 237
- excitability cycle of mammalian, 1950, 163: 469
- fibrillation: *see* HEART FIBRILLATION
- fractionate contractions of surface, 1941, 134: 514
- inflow and Z-V gradient, 1951, 167: 435
- inhibition with single induction shock, 1943, 140: 94
- inspiration and inflow, 1950, 162: 259
- intrathoracic pressure and atrial pressures, 1950, 160: 556
- location and shape of right, 1947, 148: 229
- pressure, arteriovenous fistula, 1951, 167: 426
 - relation to venous pressure, 1941, 134: 292
- respiration and pressures, 1950, 162: 508
- septal defects in, 1949, 158: 241
- simultaneous pressure pulses, 1948, 154: 258
- systole effect on ventricular pressure, 1951, 166: 289
- ventricular filling in block, 1938, 122: 639

HEART BEAT

- acid-humoral control of, 1944, 141: 312
- cold, 1951, 166: 94
- flow in inferior vena cava, 1947, 148: 742
- normal and idioventricular, 1941, 133: 651
- refractory phase of, 1940, 128: 712
- variation in volume of finger tip, 1942, 136: 433
- volumes of ventricles during, 1943, 139: 53

HEART CONSTITUENTS

- calcium of, sympathin output, 1938, 123: 256
- Ca and P of, after single massive dose of vitamin D, 1947, 149: 338
 - vitamins A and D, 1947, 149: 325
- chemical changes during hypertrophy, 1943, 138: 527
- chloride of, 1938, 122: 228
- composition in renal hypertension, 1950, 161: 450
- energy-rich phosphate supply in failure, 1947, 150: 733
- exchange of radioactive and tissue potassium, 1941, 135: 152
- extracellular water of, 1949, 157: 254
- heparin of, 1939, 125: 104
- histaminase of, 1946, 146: 58
- ionic and water of, 1950, 160: 98
- K poisoning and electrolyte distribution in, 1943, 139: 667
- phosphocreatine in hypertrophy, 1943, 138: 652
- phosphorus turnover in, 1942, 138: 176
- potassium of blood, at death, 1939, 126: 338
- potassium and water of potassium deprived rats, 1940, 128: 452
- potassium changes during ischemia and congestion, 1938, 123: 443
- protein of, in rat, 1940, 128: 545
- radioactive chlorine in, 1941, 134: 86
- radioactive colloidal gold in, 1951, 164: 830
- radioactive iodine in, 1941, 132: 348
- radioactive potassium in, 1941, 132: 483

- riboflavin of on various intake levels, 1947, 149: 259
- thiamin of, 1938, 122: 487
 - at various intake levels, 1947, 149: 257
- water of, 1938, 121: 381
 - diet and exercise, 1940, 128: 539
 - water, fat, and electrolyte of, 1950, 161: 279

HEART FAILURE

- analyzed in isolated heart circuit, 1938, 122: 262
- congestive, 1948, 155: 336
- decompensation, body water in, 1950, 162: 315
- dynamics of, in isolated heart preparations, 1945, 143: 507
- energy-rich phosphate in, 1947, 150: 733
- experimental, in dogs, 1948, 153: 558
- high frequency electric field changes, 1945, 144: 1
- in biotin deficiency, 1945, 144: 181
- in hyperthyroidism, 1945, 145: 16
 - yeast, 1945, 145: 16
- in vitamin E deficiency, 1944, 141: 242
- mode in alkalosis, 1947, 148: 9
- O₂ consumption and efficiency during, 1946, 147: 28
- right and left, 1948, 155: 336
- sensitivity to potassium, 1947, 149: 591
- venous pressure, 1943, 139: 161
- venous and right auricular pressures in, 1942, 136: 120

HEART FIBRILLATION

- auricular, 1950, 163: 135; 1951, 164: 301
 - congestive heart failure following, 1948, 155: 336
 - coronary blood flow, 1950, 160: 177
 - mechanism of flutter, 1949, 159: 137
 - shock, 1950, 162: 219
 - 'vulnerable period' in, 1951, 164: 301
- rhythm and, 1942, 136: 318
- thresholds of, 1940, 131: 296
- ventricular, 1940, 131: 104; 1951, 167: 88
 - alternating current, 1940, 131: 119
 - coronary blood flow, 1938, 122: 247
 - from single shock, 1940, 128: 500
 - ineffectiveness of vagal stimulation, 1941, 133: 634
 - initiation of, 1941, 134: 473
 - measured shock, 1951, 165: 179
 - myocardial ischemia and threshold for, 1940, 131: 309
 - papaverine hydrochloride, 1941, 133: 155
 - production by direct current, 1940, 131: 104
 - production with alternating currents, 1940, 131: 119
 - quantitative measurement of thresholds, 1940, 131: 296
 - respiratory effects on, 1944, 142: 52
 - resuscitation from induced, 1951, 164: 601
 - vulnerable period for, 1941, 133: 651

HEART INJURY

- electrical characteristics of, 1951, 167: 450
- electrical currents, 1940, 130: 130; 1943, 139: 202
- electrical field of heart, 1942, 137: 779
- electrocardiogram: *see* ELECTROCARDIOGRAM
- potentials, 1938, 124: 717; 1942, 137: 440; 1942, 138: 166; 1946, 145: 507; 1951, 166: 270
 - development and contour of, 1946, 145: 507
 - sodium chloride, 1951, 166: 271

HEART METABOLISM

- acetate metabolism in, 1946, 145: 558
- acetylcholine synthesis, 1947, 148: 418
- drug action, 1949, 158: 269
- energy transformations in during shock, 1946, 146: 272
- energy transformations in during shock, 1946, 146: 272
- enzymatic conversion of cyanide to thiocyanate in, 1948, 153: 351
- formation of CO₂ from CO in, 1950, 161: 43
- of methanol in, 1950, 163: 617
- oxygen consumption, circulation, 1947, 149: 638
 - during failure, 1946, 147: 28
 - during work, 1941, 134: 642
- endocrines, 1947, 151: 239
- in D₂O, 1940, 129: 669
- in various media, 1939, 127: 297
- x-ray injury, 1938, 122: 406
- protein anabolism in, 1940, 129: 687
- repayment of oxygen debt in, 1939, 127: 285
- slices, metabolism of, 1945, 144: 88 1950, 163: 642
- sodium turnover in, 1951, 167: 335
- utilization of beta-hydroxybutyric acid by, 1938, 123: 272

HEART MUSCLE

- action potential of, 1949, 159: 499
 - of injured, 1938, 124: 717
- adrenergic substances in, 1947, 148: 471
- anoxemic anoxia, 1947, 150: 493
- characteristics of isolated, 1951, 164: 589
- contractile force of, 1950, 161: 489
 - and irritability, 1951, 164: 234
- contraction with respect to time, 1951, 165: 285
- elastic properties of, 1939, 125: 437
- electrical signs of injury to, 1947, 150: 573
- electrical stimulation of, 1943, 138: 583
- epinephrine, 1951, 166: 277
- factors affecting respiration of slices, 1949, 158: 253
- histochemical changes in after cardiac occlusion, 1942, 136: 474
- impedance during contraction, 1943, 139: 514
- infarcts, localization of, 1945, 143: 723
- inhibition by thiamin of response to acetylcholine, 1946, 147: 233
- injury potentials of and sodium chloride, 1951, 166: 270
- membrane resting and action potentials in, 1951, 164: 307
- metabolism of, 1942, 137: 753; 1948, 152: 340; 1949, 158: 251; 1949, 158: 261
- myocardial changes following shock, 1951, 164: 832
- damage in hypertension, 1951, 167: 466
- depression in hemorrhagic shock, 1945, 144: 91
- ischemia and ventricular fibrillation, 1940, 131: 309
- myographic study, 1948, 155: 327
- oxygen consumption of, 1945, 144: 88
- papillary muscle electrograms, 1949, 156: 27
- pressure in, aortic blood pressure, 1939, 125: 237
 - methods of measuring, 1939, 125: 236
- respiration in vitro, 1944, 142: 195

HEART MUSCLE

- respiratory quotient of in vitro, 1944, 142: 198
- shock, 1944, 142: 299
- sodium and potassium of, 1950, 162: 186
- sympathomimetic amines in, 1947, 148: 461
- tonus and initiation of impulses, 1943, 139: 477

HEART RATE

- acceleration, 1949, 156: 1
 - by epinephrine, 1950, 163: 484
 - in neurogenic hypertension, 1951, 166: 12
- accelerator fibers in vagus, 1939, 128: 247
- acclimatization, 1943, 140: 171
 - in desert environment, 1950, 163: 590
- accommodation during vagal inhibition, 1939, 127: 333
- acute arteriovenous fistula, 1949, 158: 104
- adrenaline and, 1939, 126: 349; 1942, 136: 90
 - related compounds, 1940, 130: 190
- alkali, 1947, 148: 8
- anoxia and, 1946, 146: 326; 1947, 148: 394; 1947, 148: 409
- apparatus for driving at controlled rate, 1947, 150: 495
- as related to alveolar air composition, 1946, 146: 217
- basal, accelerator nerves, 1942, 137: 728
- bradycardia, diet, 1940, 128: 608
 - shock produced by epinephrine, 1945, 143: 135
- cause of multiple accelerating beats, 1941, 134: 484
- chilling, 1944, 142: 693
- climate and various aspects of beat, 1940, 129: 105
- CO₂, 1938, 124: 730
- colonic temperature, 1951, 166: 80
- contractile force of heart muscle, 1950, 161: 501
- control through carotid sinus, 1938, 124: 423
- coronary flow and, 1938, 122: 242; 1940, 131: 48; 1947, 148: 586; 1950, 162: 524
- dibenzamine and, in hemorrhage, 1950, 161: 116
- diet, 1940, 128: 608
- dinitrophenol, 1944, 141: 35
- during thiamin deficiency, 1945, 144: 407
- electroencephalogram in overventilation, 1944, 140: 584
- emotional stimulation of autonomic, 1943, 138: 468
- energy expenditure, 1946, 145: 398
- exercise, 1941, 135: 29; 1944, 142: 204
 - after denervation, 1943, 138: 689
 - comparison of men and women, 1942, 137: 320
 - on restricted and supplemented diets, 1947, 148: 629
 - with and without methemoglobinemia, 1946, 146: 706
- 933F, 1939, 127: 29
- frog, NaCl, KCl, CaCl₂, osmotic pressure, 1938, 124: 185
- G forces, 1947, 150: 9
- hemorrhage, 1950, 161: 111
 - trauma, and deafferentation, 1947, 148: 551
- high altitudes, 1947, 150: 204
- histamine subcutaneously, 1944, 142: 161
- hyperthyroidism, 1948, 153: 412
- hypothermia and, 1949, 157: 106; 1950, 161: 455

- in hemorrhagic shock, 1944, 140: 680
 - and traumatic shock, 1947, 148: 170
- in hibernation, carbon dioxide, 1951, 167: 638
- in newborn rat, 1943, 139: 49
- in tamed and untamed rats, 1943, 139: 261
- injection of hypertonic solutions, 1950, 160: 17
- insomnia, 1942, 138: 66
- intracisternal potassium phosphate, 1945, 145: 224
- method of determining in rats, 1944, 142: 689
- motor cortex stimulation, 1942, 137: 471
- of fetal rats, 1942, 137: 477
- of hibernating hamsters, 1950, 163: 567
- on breathing pure oxygen, 1946, 146: 63
- optimal, relation to blood pressure, 1940, 128: 710
- osmotically-active substances in, 1940, 129: 295
- partial cerebral ischemia, 1946, 146: 470
- posterior pituitary hormone, 1944, 142: 116
- pulmonary arterial pressure, 1942, 137: 628
- Q-T interval, 1941, 132: 157
- rate of decompression, 1947, 150: 608
- restricted and supplemented diets, 1947, 148: 629
- role of hypothalamus and preoptic region in regulation of, 1941, 132: 5
- semi-starvation, rehabilitation, 1947, 150: 163
- skeletal muscle activity, 1941, 132: 321
- static effort, 1947, 150: 114
- tachycardia, ectopic ventricular, drugs, 1950, 163: 505
- temperature and, 1943, 140: 257; 1945, 143: 293
 - and humidity, 1945, 143: 29
 - in embryonic heart, 1948, 152: 223
 - S-A rate, 1951, 167: 76
- thyroid compounds, 1944, 141: 34
- thyroid feeding, 1944, 142: 692
- thyroxin and after bile duct ligation, 1950, 162: 21
- training, 1940, 129: 167
- traumatic shock, 1947, 148: 101; 1950, 161: 125
- under chloralose anesthesia, 1941, 131: 563
- various drugs, 1944, 142: 694
- venous pressure, 1941, 135: 207
- veratramine, 1951, 167: 714
- water intoxication, 1946, 146: 564
- work, 1942, 136: 365

HEART RHYTHM

- alteration of, during thiamin deficiency, 1945, 144: 404
- chemical mediators in, 1949, 159: 467
- potassium phosphate, 1945, 145: 228

HEART SIZE

- AP thickness of, 1949, 157: 346
- change and output, 1939, 126: 748
- changes in, 1949, 156: 339
- experimental hypertrophy, 1949, 159: 153
- hemorrhage, epinephrine, nerve section, 1950, 161: 466
- hypertension and adrenalectomy, 1939, 125: 589
- hypertrophy during pregnancy, 1938, 122: 34
- in intact animal, 1950, 163: 260
- in shock by venous occlusion, 1945, 143: 80
- measured volume as compared to calculated volume, 1950, 161: 470

measurement by x-ray, 1950, 161: 466
 nerve stimulation, 1950, 162: 269
 potassium chloride, 1951, 166: 273
 prolonged anterior pituitary treatment, 1946, 147: 302

HEART STROKE

index, diastolic time, 1950, 162: 273
 obtained by dye injection, Fick procedures, or
 calculated from pressure pulse contours, 1949,
 159: 382
 volume, comparison of dye injection measurement
 and pulse pressure measurement, 1947, 148: 21
 difficulty in calculating from pulse wave velocity,
 1945, 144: 536
 inspiration and, 1948, 154: 273
 measurement from pressure pulse, 1947, 148: 14
 measurement of, 1939, 126: 741; 1951, 167: 721
 on breathing pure oxygen, 1946, 146: 63
 prediction from pressure pulse, 1948, 153: 298
 regulation of, 1948, 153: 287
 training on during exercise, 1940, 129: 169

HEART VENTRICLE

activity, during hemorrhagic shock, 1946, 147: 270
 apparatus for studying elastic properties of, 1939,
 125: 439
 arrest, high frequency electric field changes and, 1945,
 144: 1
 catheters in hypothermia, 1951, 167: 63
 chloride of, 1940, 129: 600
 contraction and relaxation of, 1950, 162: 249
 venous return and peripheral vascular resistance,
 1948, 155: 327
 drug reactions of, 1943, 138: 758
 electrical and mechanical events in, 1940, 128: 393
 electrical stimulation of, 1942, 138: 50
 electrocardiogram, 1941, 131: 687; 1943, 139: 464
 equipotential lines of electric field of, 1940, 128: 393
 excitement of, 1950, 163: 272
 extravascular support and coronary flow, 1938, 122:
 236
 fractionate contractions of surface, 1941, 134: 514
 heat, cold and electrocardiogram, 1941, 134: 288;
 1941, 134: 393; 1947, 149: 266
 impedance during contraction, 1943, 139: 514
 intercardiodynamics, 1948, 154: 281
 intrapressure and local muscle activity, 1940, 131:
 416
 osmotically-active substances and weight, 1940, 129:
 295
 paroxysmal tachycardia in, 1948, 153: 553
 pressure, coronary blood flow, 1943, 139: 726
 coronary inflow, 1944, 142: 46
 in right, following phosgene gassing, 1946, 147: 333
 rate in maintained auricular fibrillation, 1939, 127:
 272
 rate of excitability of, 1951, 166: 610
 reaction of isolated strips of, to acetylcholine and
 epinephrine, 1945, 145: 147
 repolarization in, 1949, 159: 492
 rhythm and fibrillation, 1942, 136: 318
 spread of excitation, 1941, 134: 319
 stretch and stroke volume of, 1943, 139: 52

supernormal period in, 1938, 124: 591
 volume during beat, 1943, 139: 53
 vulnerability, 1951, 167: 88
 water of, 1942, 135: 434
 weight and body weight, 1942, 136: 508

HEART WORK

coronary flow, oxygen consumption, 1950, 163: 539
 evaluation of, 1947, 150: 292
 in cardiac contractility, 1951, 165: 525
 in isolated heart preparation, 1945, 143: 495, 1945,
 143: 507
 kinetic energy, determination of, 1949, 159: 483
 oxygen consumption, 1947, 149: 642; 1950, 162: 524
 per beat and size, 1950, 163: 264

HEART-LUNG PREPARATION

acetylcholine, 1945, 144: 191
 blood electrolyte changes in, 1942, 137: 8
 cardiac efficiency during failure, 1946, 147: 31
 coronary flow in, 1938, 122: 236; 1940, 131: 43; 1945,
 143: 479
 dynamics of, 1945, 143: 463; 1945, 143: 495
 in failure, 1945, 143: 507
 edema in, 1942, 136: 506
 electrolyte and water of, 1942, 136: 516
 Starling, energy-rich phosphate supply, 1947, 150: 733
 temperature and rate, 1951, 167: 76
 use of carbohydrate and ketone bodies by, 1938,
 122: 542
 utilization of beta-hydroxybutyric acid, 1938, 123:
 272
 vascular shock in dog in, 1943, 138: 212
 work, correlation with phosphocreatine in, 1947,
 150: 742

HEART, BLOOD FLOW: see CORONARY BLOOD FLOW**HEART, DENERVATED**

acetylcholine, 1940, 128: 469
 adrenaline, related drugs, 1940, 130: 193
 atropine and, coronary flow, 1943, 138: 684
 atropinized, acetylcholine, 1945, 145: 178
 exercise, heart rate and coronary blood flow after,
 1943, 138: 689
 sensitization to adrenaline, 1940, 131: 409

HEART, ELECTROPHYSIOLOGY

conduction in Purkinje tissue, 1951, 165: 173
 conduction time, alkali, 1947, 148: 1
 conductivity of tissues in contact with, 1939, 125:
 627
 distribution of potentials on surface, 1943, 138: 644
 doublet theory of cardiac action current, 1940, 128:
 547
 electric field of after local injury, 1942, 137: 779
 electrical changes in coronary artery occlusion, 1950,
 160: 366
 electrical characteristics of injury potentials, 551,
 167: 451
 electrical defibrillation of, 1951, 167: 81
 electrical and mechanical events in, 1941, 131: 760
 electrical systole in, 1951, 166: 584
 endocardial-epicardial potential gradient, 1949,
 159: 492

HEART, ELECTROPHYSIOLOGY

- epicardial negativity and zonal interference, 1950, 163: 130
- index of auriculo-ventricular conductivity, 1939, 127: 272
- inhibition by direct stimulation, 1942, 135: 447
- initiation of impulses in, 1943, 138: 273
- membrane resting and action potentials, 1951, 164: 307
- spread of cardiac activation in, 1942, 138: 113
- excitation in, 1949, 157: 248

HEART, ISOLATED

- apparatus for study of, 1939, 125: 463
- circuit for analysis of heart failure, 1938, 122: 262
- dynamics of, 1945, 143: 463; 1945, 143: 495
- in failure, 1945, 143: 507
- efficiency of heart during failure, 1946, 147: 31
- mechanism of failure in, 1939, 125: 463
- temperature changes in, 1949, 156: 285

HEART, TURTLE

- A-V pause in spread of activation, 1942, 138: 113
 - accommodation during vagal inhibition, 1939, 127: 333
 - acid-humoral intermediation, 1944, 141: 312
 - action potential, 1949, 159: 499
 - of ventricular, 1947, 150: 578
 - Bazett's K value in, 1951, 166: 590
 - calcium, 1948, 153: 402
 - cardiovascular response to oxytocic principle, 1944, 142: 116
 - coordination of function, 1941, 132: 725
 - dynamics, 1940, 128: 711
 - elastic properties of, 1939, 125: 442
 - electrical changes during injury to, 1947, 150: 573
 - electrical and mechanical events in ventricle, 1940, 128: 390
 - electrical stimulation of ventricle, 1942, 138: 50
 - electrocardiogram in, 1941, 132: 157; 1945, 143: 453
 - electrogram of strip, 1948, 154: 241
 - heavy water, adrenaline, 1940, 129: 664
 - impedance of ventricular muscle, 1943, 139: 514
 - inhibition by direct stimulation, 1942, 135: 447
 - inhibition of atria by induction shock, 1943, 140: 93
 - injury, from trauma, 1946, 145: 516
 - injury potential of, 1938, 124: 719; 1946, 145: 507; 1951, 167: 451
 - sodium chloride, 1951, 166: 271
 - intraventricular pressure and local muscle activity, 1940, 131: 416
 - isolated ventricle, acetylcholine, epinephrine, 1945, 145: 147
 - response to hypothermia, 1951, 166: 94
 - spread of excitation in ventricles, 1941, 134: 319
 - ventricular electrogram in, 1943, 139: 464
 - vulnerability, 1951, 167: 91
- HEAT (ENVIRONMENTAL)**
- acclimatization to, 1943, 140: 171; 1943, 140: 321
 - composition of sweat, 1938, 123: 414
 - long term, 1947, 148: 86
 - acetylcholine content and choline esterase activity of CNS, 1941, 132: 591
 - adrenal cortical extracts, water and work in, 1945, 143: 171

- adrenal gland and susceptibility to, 1945, 144: 108
- blood volume, 1941, 134: 167; 1946, 146: 747
- desoxycorticosterone in adrenalectomized rats, 1945, 144: 109
- dietary requirements, 1947, 149: 376
- dry, cardiovascular adjustments to, 1943, 139: 583
- sodium chloride intake, work performance, 1943, 140: 439
- water metabolism in, 1938, 123: 369
- energy metabolism, water balance, 1948, 152: 233
- fragility of erythrocytes, 1951, 164: 202
- gastric emptying time, 1944, 141: 206
- gonadotropic antagonist from pituitary, 1940, 128: 535
- humid, cardiac output in, 1940, 131: 54
- initiation of sweating in, 1946, 145: 712
- iodine metabolism, 1944, 140: 672
- local, response to, in cold environment, 1945, 144: 724
- NaCl in adrenalectomized rats, 1945, 144: 110
- of nasopharyngeal passages, lymph flow, 1940, 128: 350
- panting threshold temperature, 1938, 122: 511
- stress, renal function, 1951, 164: 497
- sympathectomy, 1939, 125: 531
- T wave in electrocardiogram, 1941, 131: 700
- thermal balance of working men, 1947, 149: 483
- threshold for heat sense on forehead, 1942, 135: 426
- thyroid secretion rate, 1947, 150: 689
- tolerance to, 1938, 124: 264
- dehydration, 1947, 151: 564
- traumatic shock, 1951, 165: 536
- work in, 1944, 142: 254

HEAT EXCHANGE

- at high temperatures, 1947, 151: 626
- blood flow in hand, 1946, 146: 605
- climate, 1940, 129: 84
- in hot environment, 1947, 151: 626
- in outdoor weather, 1946, 146: 507
- loss, air movement, 1939, 127: 505
- in warm-blooded animals, 1939, 125: 36
- physical properties of environment, 1940, 131: 93
- role of extremities in, 1940, 128: 782
- production, adrenalectomy, 1944, 141: 152
- after drinking of ice water, 1942, 136: 107
- by various carbohydrates, 1944, 141: 253
- external temperature, body weight and surface, 1947, 148: 478
- function of thyroid in maintenance of, 1942, 137: 582
- in normal and adrenalectomized rats, 1938, 121: 182
- in radiant environment, 1940, 131: 79
- litter size and growth, 1942, 138: 180
- of fasting pigeons, 1944, 141: 305
- of hypothermic hamster, 1951, 166: 62
- on treadmill, in extreme cold, 1947, 150: 105
- thyroidectomy and amniotin, 1938, 124: 114
- water metabolism, 1942, 135: 574

HEAT EXHAUSTION

- sodium chloride, 1943, 140: 447

HEAT REGULATION: see TEMPERATURE REGULATION

HEAT, DIATHERMY

panting response to, 1938, 121: 747

HEAT, RADIANT

locally applied, sweating response to, 1947, 150: 366

HEATH, C. W. Physical exertion and laking of erythrocytes, 1943, 139: 569

— See EGAÑA, E.

HECHT, H. H.: see WOODBURY, L. A.

HECHT, S. AND MANDELBAUM, J. Dark adaptation in vitamin A deficiency, 1940, 130: 651

HECHTER, O.: see LEVINE, R.

— See SOSKIN, S.

HECKEL, G. P.: see ALLEN, W. M.

HEERSMA, J. R. and ANNEGERS, J. H. Bile and fat absorption, 1948, 153: 143

HEGE, J. R., JR.: see DICK, M.

HEGGENESS, F. W. and NASSET, E. S. Purification of enterocrinin, 1951, 167: 159

HEGNAUER, A. H., D'AMATO, H. and FLYNN, JEAN Cardiac catheters in hypothermia, 1951, 167: 63

—, FLYNN, JEAN and D'AMATO, H. Rewarming from deep hypothermia, 1951, 167: 69

—, SHRIBER, W. J. and HATERIUS, H. O. Cardiovascular response to hypothermia, 1950, 161: 455

— See FENN, W. O.

— See PENROD, K. E.

HEGSTED, D. M. and HAFENREFFER, VIRGINIA K. Dietary protein and caloric intake, 1949, 157: 141

—, WILSON, DORIS, MCPHEE, GWELDA and STARE, F. J. Permutit Z and mineral metabolism, 1951, 164: 695

— See CHARALAMPOUS, F. C.

— See WANG, C. F.

HEIDENHAIN POUCH

gastric secretion with, 1939, 127: 637; 1947, 150: 378

HEILBRUNN, L. V.: see MOREAU, L.

HEINBECKER, P. and BARTLEY, S. H. Strychnine action on nervous system, 1939, 125: 172

— and ROLF, DORIS. Hypophysial eosinophil cell and insulin sensitivity, 1944, 141: 566

— and WHITE, H. L. Hypothalamic-hypophysial system and water balance, 1941, 133: 582

—, ROLF, DORIS and WHITE, H. L. Glands of internal secretion and renal function, 1943, 139: 543

—, WHITE, H. L. and ROLF, DORIS. Experimental obesity in the dog, 1944, 141: 549

—, WHITE, H. L. and ROLF, DORIS. Hormonal control of insulin sensitivity and sugar tolerance, 1942, 136: 592

— See BARTLEY, S. H.

— See WHITE, H. L.

HEINEN, J. H.: see HUGGINS, C.

HEINSEN, A. J. Phosphate and human blood glycolysis, 1948, 152: 216

— See HALD, PAULINE M.

HEISLER, C. R.: see LEONARDS, J. R.

HELIUM

diffusion and blood flow, 1941, 131: 630

elimination from body, 1941, 131: 619

gas exchange in mice, 1951, 164: 248

lung ventilation, 1941, 134: 459

method of measuring residual lung volume, 1948, 153: 138

use for deep sea diving, 1939, 126: 409

HELLBAUM, A. A.: see BUNDE, C. A.

HELLEBRANDT, FRANCES A. Standing as a geotropic reflex, 1938, 121: 471

—, BROGDON, ELIZABETH and TEPPER, RUBY H. Posture and its cost, 1940, 129: 773

—, CRIGLER, ELEANOR F. and KELSO, L. E. A. Variations in intramuscular pressure, 1939, 126: 247

—, FRIES, E. CORINNE, LARSEN, ELEANOR M. and KELSO, L. E. A. Postural stability and stance under army pack, 1944, 140: 645

—, NELSON, BETTE G. and LARSEN, ELEANOR M. Eccentricity of standing and its cause, 1943, 140: 205

—, TEPPER, RUBY H., BRAUN, GENEVIEVE L. and ELLIOTT, MARGARET C. Center of gravity in women, 1938, 121: 465

— See DAWSON, P. M.

— See FRANSEEN, ELIZABETH B.

— See TEPPER, RUBY H.

HELLEMS, H. K., HAYNES, FLORENCE W., DEXTER, L. and KINNEY, T. D. Pulmonary capillary pressure, 1948, 155: 98

— See LEVINE, H. D.

HELLER, A. L.: see GREEN, H. D.

HELLER, C. G., LAUSON, H. D. and SEVRINGHAUS, E. L. Rat uterus in assay of gonadotropic substances, 1938, 121: 364

HELLER, J. H., SETLOW, R. B. and MYLON, E. Epinephrine and larterenol in plasma, 1951, 166: 304

—, SETLOW, R. B. and MYLON, E. Fluorimetric studies of epinephrine, 1950, 161: 268

— See MYLON, E.

HELLER, R. E.: see SOSKIN, S.

HELLERSTEIN, H. K. and LIEBOW, I. M. Coronary artery occlusion, 1950, 160: 366

HELM, J. D., JR.: see FORSTER, F. M.

HELMER, O. M. and SHIPLEY, R. E. Recovery of a presor principle, 1947, 150: 353

— See Shipley, R. E.

HEMATO-ENCEPHALIC BARRIER (BLOOD-BRAIN)

serum bromide concentration and permeability of, 1942, 137: 111

HEMATOCRIT

acclimatization to high altitude, 1947, 149: 574; 1951, 167: 53; 1951, 167: 266

anemia and, 1944, 141: 356

anesthesia, 1943, 138: 458; 1943, 140: 185; 1948, 152: 7

bed rest, 1945, 144: 229

bile, 1945, 144: 627

calculation, 1941, 132: 411; 1951, 164: 613

callicrein, 1944, 142: 526

caloric restrictions, 1946, 147: 425

cell and plasma volume during hemorrhage, 1945, 144: 200

centrifuge, error in, 1942, 137: 447

See page iii for guide to use of index

HEMATOCRIT

- changes in sedimentation rate and, due to lipemia and heparin, 1951, 164: 798
- circulating and venous hematocrit, 1942, 136: 316
- climate, 1940, 129: 72
- comparison of arterial and 'body', 1951, 164: 613
- crosstransfusion in traumatic shock, 1947, 149: 117
- deafferentation, 1947, 148: 549
- decompression stress, 1951, 164: 756
- determination of, 1942, 137: 447
- diabetic acidosis, 1947, 149: 669
- diathermy treatment, 1938, 124: 267
- early changes at moderate altitudes, 1938, 122: 179
- estrogen, 1943, 140: 263
- evisceration, 1950, 160: 248
- experimental shock, 1947, 148: 291
- famine edema, 1947, 150: 172
- fever, 1939, 125: 609
- folic acid deficiency, 1945, 145: 64
- gravity shock, 1944, 141: 166; 1944, 141: 228
- growth, 1944, 141: 702; 1944, 142: 97
- hemorrhage, 1943, 138: 569; 1945, 144: 203; 1945, 144: 210
 - splenectomy, sympathectomy, 1947, 148: 424
- hemorrhagic shock, 1944, 140: 680; 1944, 140: 739; 1946, 147: 306
- histamine injection, 1942, 137: 291; 1944, 142: 163; 1947, 148: 136
- in carotid sinus denervated dogs during tourniquet shock, 1945, 144: 496
- intravenous gelatin, 1944, 140: 637
- linear relation to circulating erythrocytes, 1942, 136: 316
- muscle trauma, 1947, 148: 114
- negative G forces, 1948, 153: 66
- opacity of suspension, 1941, 134: 741
- phosgene gassing, 1946, 147: 329
- plasma potassium concentration in shock, 1943, 138: 501
- posthemorrhagic hypotension, 1943, 140: 330
- pregnancy, 1942, 137: 386
- pressure breathing, 1948, 155: 213
- pulse transmission, 1947, 149: 317
- pyridoxine deficiency, 1946, 146: 727
 - protein level, 1946, 146: 727
- red cell mass, 1944, 141: 363
- red cell volume, 1941, 132: 411
- relative cell volume, 1949, 156: 14
- renal blood flow resistance, 1946, 147: 539
- repeated artificial pneumothorax, 1949, 159: 394
- repeated exposure to anoxia, 1942, 137: 616
- riboflavin deficiency, 1951, 165: 609
- seasonal variation in, 1947, 148: 457
- shock, 1942, 137: 281; 1947, 148: 166
- splenectomy, 1950, 160: 301
- starvation, recovery, 1947, 151: 526
- thiouracil, 1947, 149: 562
- time of day and value, 1947, 150: 634
- total blood volume, 1938, 121: 802
- traumatic shock, 1945, 144: 434
- traumatic and hemorrhagic shock, 1945, 144: 598
- tropical conditions, 1946, 146: 746

- variability in women, 1943, 138: 627
- various air temperatures, 1946, 146: 524
- various clinical states, 1947, 148: 534
- venous, epinephrine, 1942, 137: 717
- vitamin B₆, 1945, 144: 353
- whole-body x-irradiation, 1951, 164: 453
- work, 1947, 149: 181

HEME

- augmentation of pituitary gonadotropins by, 1943, 139: 89

HEMIDECORTICATION

- escape and avoidance conditioning, 1946, 146: 286

HEMINGWAY, A. Cold sweating in motion sickness, 1944, 141: 172

- Ether and temperature regulation, 1948, 152: 663
- Heat and panting temperature thresholds, 1938, 122: 511

- Panting response to measured diathermy heat, 1938, 121: 747

- Temperature regulation under barbital anesthesia 1941, 134: 350

- Temperature regulatory responses to cold, 1940, 128: 736

- and BARBOUR, H. G. Thermal tolerance of dogs and acid base equilibrium, 1938, 124: 264

- and HATHAWAY, S. R. Chemical temperature regulation, 1941, 134: 596

- and LILLEHEI, C. W. Thermal regulation, 1950, 162: 301

- See SHELLEY, W. B.

- See SUSSMAN, A. H.

HEMOCONCENTRATION: *see* BLOOD VOLUME, reduction

HEMOGLOBIN

- affinity for oxygen, 1944, 142: 733

- age, diet and strain, 1938, 124: 511

- altitude acclimatization, 1951, 167: 53

- anemia, 1944, 141: 356

- anesthesia, 1950, 160: 279

- anoxia, 1951, 167: 559

- arsenic and manganese supplements and formation, 1946, 145: 503

- asphyxia, 1946, 147: 438

- barbiturate anesthesia, 1944, 142: 41

- benzene poisoning and, on protein deficient diets, 1945, 145: 172

- CO₂ of, acclimatization to high altitude, 1947, 149: 572

- cobalt, 1943, 139: 400; 1945, 144: 465

- concentration in college women, 1944, 142: 730

- dehydration, 1945, 145: 155

- dissociation, in young and adult duck blood, 1946, 146: 224

- during dietary restrictions, 1946, 147: 47

- environmental conditions, 1940, 129: 75

- equilibrium with O₂, methemoglobin, 1942, 137: 56

- evisceration, 1950, 160: 248

- excretion, in rats, 1948, 154: 532

- inulin and urea clearance, 1939, 125: 795

- factors affecting colorimetric measurements of, 1951, 165: 229

- fat and choline, 1944, 142: 214

- folic acid deficiency, 1945, 145: 64

- formation with iron of destroyed red cells, 1942, 135: 596
- growth, 1941, 132: 365; 1944, 142: 97
- hepatectomy, 1945, 145: 208
- high fat and choline intake, 1945, 144: 445
- histamine subcutaneously, 1944, 142: 163
- histotoxic anoxia, 1950, 163: 126
- hypercapnia, 1940, 129: 526
- in diabetic acidosis, 1947, 149: 669
- in total biliary fistula dogs without bile therapy, 1945, 144: 627
- infra red spectrophotometric studies, cyanide, methylene blue, carbon dioxide, 1941, 132: 311
- infusion fluid of, following hemorrhage, 1947, 150: 641
- interrelation with bile pigment in anemia, 1939, 126: 329
- iron, as stimulus for production of ferritin, 1950, 160: 1
- kidney and concentration, 1948, 153: 47
- low caloric intake, 1946, 147: 425
- manganese deficiency, 1943, 140: 78
- of blood, CO, O₂ and altitude, 1945, 145: 354
- of peripheral blood, 1950, 162: 712
- of stored blood and of spleen, 1951, 165: 219
- pressure breathing, 1948, 155: 213
- production factors from liver, 1939, 126: 142
- production, severity of anemia, 1941, 134: 263
- prolonged injection of adrenaline, 1941, 131: 547
- protein and fat content of the diet, 1945, 145: 162
- protein level and in pyridoxine deficiency, 1946, 146: 727
- purified diet, 1945, 145: 24
- pyridoxine deficiency, 1946, 146: 727
- reduced from oxyhemoglobin, time required in vivo, 1946, 147: 622
- removal, from circulation, 1938, 123: 516
- from lung, 1938, 123: 598
- renal threshold for, 1938, 123: 516
- repeated artificial pneumothorax, 1949, 159: 394
- smoking, 1945, 145: 356
- sodium chloride and, in work in dry heat, 1943, 140: 446
- splenectomy, 1943, 138: 599
- starvation, recovery, 1947, 151: 526
- temperature, posture, 1947, 150: 633
- thyroid, 1948, 152: 104
- total blood volume, 1938, 121: 802
- variability in women, 1943, 138: 627
- vitamin B₆, 1945, 144: 353
- vitamin B₁₂ deficiency, 1950, 162: 717
- HEMOLYSINS**
- activity in vivo, 1941, 132: 18
- HEMOLYSIS**
- due to chyle, 1940, 130: 723
- in vivo, produced by soap, 1944, 140: 556
- HEMOPHILIA**
- antithromboplastin in plasma from, 1943, 139: 269
- blood plasma and prothrombin in, 1950, 163: 148
- blood vessel defect in, 1943, 139: 117
- capillary resistance in swine with, 1942, 138: 136
- clotting of plasma in, by trypsin, 1939, 126: 669
- coagulation of plasma in, 1945, 143: 67
- experimental, produced with heparin, 1942, 135: 551
- HEMORRHAGE**
- acute, responses of capillaries to, 1944, 142: 85
- acute hypoproteinemia following, 1940, 128: 332
- atrial pressure, 1948, 154: 267
- barbiturate anesthesia, 1944, 142: 41
- bile, 1939, 125: 423
- blood flow, clearance, 1946, 145: 703
- blood lactate, 1943, 140: 128
- blood phosphate, 1947, 149: 424
- blood pressure and fluid shifts following, 1950, 163: 529
- blood volume, 1946, 146: 746
- serum protein, 1947, 148: 166
- body temperature and oxygen consumption after, 1947, 149: 456
- buoyancy of body, 1942, 137: 141
- capillary pressure, 1947, 149: 396
- carbohydrate metabolism, 1945, 143: 580; 1948, 154: 107
- cardiac output, 1947, 151: 34
- cardiovascular responses to, 1950, 161: 106
- circulation time as measured by cyanide and fluorescein, 1947, 148: 75
- coagulation time of blood and lymph, 1943, 138: 753
- contractile force of heart muscle, 1950, 161: 499
- efficacy of infusion fluids in the treatment of, 1947, 150: 641
- erythropoiesis following, 1947, 150: 623
- gastro-intestinal motility, 1946, 146: 450
- heart volume, 1950, 161: 470
- hematocrit, 1946, 146: 746
- plasma volume, 1947, 148: 426
- hemoconcentration and shock following, 1943, 138: 450
- inferior vena cava flow, 1947, 148: 745
- intestinal absorption, 1938, 124: 102
- intramuscular pressure changes in shock due to, 1945, 143: 95
- kidney in resistance to, 1943, 140: 416
- lactic acid, potassium movement, 1940, 131: 494
- location of mid-point of right atrium, 1947, 148: 237
- mesenteric blood vessels and blood flow, 1945, 143: 182
- oxygen saturation of bone marrow and blood, 1948, 153: 521
- plasma amino acids, 1946, 146: 657
- plasma amino nitrogen, 1948, 154: 87
- plasma proteins after, 1943, 139: 638
- plasma proteins and red cell volume, 1943, 138: 569
- plasma protein replacement after, 1942, 136: 299
- pulmonary arterial pressure, 1942, 137: 628
- rapid, circulatory adjustments following, 1951, 164: 351
- renal blood flow and oxygen consumption, 1945, 145: 340
- renal function, 1950, 161: 442
- renal humoral mechanism in, 1942, 136: 276
- repeated, renal function, 1945, 145: 332
- skeletal muscle tone, 1942, 137: 251

HEMORRHAGE

- small intestine motility, 1944, 142: 261
- stress response of adrenal cortex, 1950, 160: 503
- sudden, kidney function, 1945, 145: 332
- treatment with isotonic saline, 1949, 158: 418
- value of gelatin after, 1943, 140: 431
- vasoconstriction in response to, 1950, 161: 116
- venous pressure and intrathoracic pressure, 1942, 136: 415

x-irradiation, 1950, 161: 505

HEMOSTASIS

- erythrocyte fragility, 1943, 138: 519
- mechanism of, 1947, 148: 275

HEMPHILL, R. W.: *see* WEVER, E. G.

HENDERSON METHOD

- of measuring intramuscular pressure, 1947, 150: 489

HENDERSON, C. R.: *see* BERRYMAN, G. H.

— *See* COGSWELL, R. C., JR.

HENDERSON, J. B.: *see* BLOOD, F. R.

HENDERSON, NORA: *see* ELLIOTT, K. A. C.

HENDERSON, W. P.: *see* RANDALL, W. C.

HENDLEY, C. D., DAVENPORT, H. W. and TOMAN, J. E. P. Acid-base changes and seizures, 1948, 153: 580

HENDRICKS, JEANETTE B., MORGAN, AGNES F. and FREYTAG, RUTH M. Hypervitaminosis D in young dogs, 1947, 149: 319

HENLE, GERTRUDE and ZITTLE, C. A., Metabolism of bovine epididymal spermatozoa, 1942, 136: 70

HENNY, G. C. and SPIEGEL-ADOLF, MONA. X-ray diffraction studies on fish bones, 1945, 144: 632

— *See* SPIEGEL, E. A.

HENRIKSON, HELEN W. Potassium deficiency on gastrointestinal motility, 1951, 164: 263

HENRY, F. M. Cardiovascular effects of experimental insomnia, 1942, 138: 65

— Exercise and altitude pain, 1946, 145: 279

HENSCHEL, A. F., KEYS, A., STURGEON, ANGIE MAE and TAYLOR, H. L. Test diet and gastric mobility, 1947, 149: 107

—, MICKELSEN, O., TAYLOR, H. L. and KEYS, A. Plasma volume and thiocyanate space in famine edema, 1947, 150: 170

—, TAYLOR, H. L. and KEYS, A. Gastric emptying time at high environmental temperature, 1944, 141: 205

—, TAYLOR, H. L. and KEYS, A. Persistence of heat acclimatization in man, 1943, 140: 321

— *See* KEYS, A.

— *See* TAYLOR, H. L.

HENSTELL, H. H. Electrolytic resistance of blood clot, 1949, 158: 367; 1949, 158: 379

— *See* GUNTHER, L.

HEPARIN

- action followed by viper venom, 1947, 151: 58
- antithrombin effect, 1941, 134: 55
- bioassay of, 1943, 139: 612
- blood changes due to, 1951, 164: 798
- blood clotting, 1940, 130: 760
- cofactor for inhibition of prothrombin conversion, 1939, 125: 685

failure in treatment of frostbite, 1947, 149: 156

hemostasis, 1947, 148: 280

inhibition of prothrombin conversion by, 1939, 125: 684

interrelation with fibrinogen, 1949, 156: 458

intravenous injection of, 1939, 125: 98

mechanism of inhibition of coagulation, 1940, 128: 403

normal antithrombin, 1938, 123: 712

of tissues, 1939, 125: 103

optical density of clotted plasma, 1948, 152: 577

peptone shock, 1945, 145: 274

plasma coagulation, 1943, 139: 614

production of experimental hemophilia by, 1942, 135, 549

prothrombin assay, 1941, 134: 47

rate of renal excretion following intravenous injection, 1941, 133: 562

thrombin inactivation, 1951, 165: 195

thrombopenia, 1945, 145: 275

traumatic shock, 1947, 150: 698

vasoconstrictor action of shed blood, 1943, 139: 29

HEPATECTOMY

alkaline phosphatase levels after, 1947, 149: 418

amino acid metabolism, 1951, 167: 201

anaphylaxis in dogs, 1940, 130: 379

availability of glucose metabolites, 1939, 125: 551

blood coagulation, 1951, 164: 111

blood uric acid, allantoin, 1947, 150: 678

blood volume, 1942, 135: 607

cortin, 1940, 128: 731

DNP, 1951, 167: 224

in monkey, 1938, 121: 203

liver catalase activity, 1951, 167: 581

muscle creatine, 1938, 124: 533

plasma proteins, 1943, 139: 556; 1949, 159: 73

protein components of plasma after, 1946, 146: 674

prothrombin components, 1945, 145: 208

renin and angiotonin activator in plasma, 1941, 135: 218

serum phosphatase, 1951, 164: 792

total, 1938, 121: 209

vascular reactivity, 1950, 160: 421

HEPATIC ARTERIES

blood flow in, 1941, 132: 378

HEPATIC BILE: *see* BILE

HEPATIC BLOOD FLOW

bile acids, 1941, 132: 375

bile formation, 1938, 121: 61

drugs, 1941, 131: 713

glucose output, 1947, 148: 306; 1947, 148: 314

blood sugar level, 1947, 148: 314

measurement of, 1941, 132: 489

summary of various experimental data, 1947, 148: 308

HEPATIC VASODEPRESSOR

mechanism in traumatic shock, 1951, 164: 91

production in shock, 1947, 150: 245

HEPATITIS

plasma proteins, 1943, 139: 593

pregnancy and, plasma proteins, 1943, 139: 596

- HEPPEL, L. A. Electrolyte changes in stimulated muscle, 1940, 128: 440
- Entry of sodium in muscle after potassium deprivation, 1940, 128: 449
- Tissue electrolytes in potassium-depleted rats, 1939, 127: 385
- HERBER, FLORENCE J. Metabolic changes in asphyxia, 1948, 152: 687
- HERBST, E. J.: *see* RIESEN, W. H.
- HEREDITY
- abnormal bleeding time in swine, 1942, 136: 361
- blood sugar level, 1950, 163: 410
- bone growth, 1946, 146: 591
- erythrocyte number, 1938, 122: 480
- hemoglobin, 1938, 124: 511
- in pigeon crop-sac bioassay, 1939, 125: 727
- HERGET, C. M. and HARDY, J. D. Temperature sensation: the spatial summation of heat, 1942, 135: 426
- GRANATH, L. P. and HARDY, J. D. Thermal sensation and discrimination, 1941, 134: 645
- GRANATH, L. P. and HARDY, J. D. Warmth sense in relation to skin area stimulated, 1941, 135: 20
- HERING-BREUER REFLEX
- role in crossed phrenic phenomenon, 1948, 154: 418
- under barbital anesthesia, 1942, 136: 8
- under pentothal anesthesia, 1948, 154: 428
- HERINGMAN, E. C.: *see* VAN LOO, A.
- HERMAN, GLORIA L.: *see* BRUCER, M.
- HERMANSON, VIRGINIA and HARTMAN, F. A. Adrenalectomy and high temperature, 1945, 144: 108
- HERRICK, J. F., CORCORAN, A. C. and ESSEX, H. E. Circulatory effects of renin and angiotonin, 1941, 135: 88
- , GRINDLAY, J. H., BALDES, E. J. and MANN, F. C. Exercise and blood flow in abdominal arteries, 1940, 128: 338
- *See* ESSEX, H. E.
- *See* GRINDLAY, J. H.
- *See* HAUSNER, E.
- *See* SOSKIN, S.
- HERRIN, R. C. Secretion of ammonia by small intestine, 1940, 129: 146
- Urea excretion in intestinal obstruction, 1947, 149: 494
- and MEEK, W. J. Afferent nerves excited by intestinal distention, 1945, 144: 720
- and NICHOLAS, H. J. Influence of vitamin A on urea and inulin clearance, 1939, 125: 786
- *See* DANFORD, H. G.
- *See* NICHOLAS, H. J.
- *See* YOUNG, W. B.
- HERRING, V. V. and EVANS, H. M. Anterior-pituitary hormones and carbohydrate stores, 1943, 140: 452
- *See* FRAENKEL-CONRAT, H. L.
- *See* LI, C. H.
- *See* MARX, W.
- HERRINGTON, L. P. Heat regulation of small laboratory animals, 1940, 129: 123
- *See* GAGGE, A. P.
- *See* LAMPORT, H.
- *See* NIELSON, M.
- *See* WINSLOW, C.-E. A.
- HERRLICH, H. C. *see* HIMWICH, H. E.
- *See* MARTIN, S. J.
- HERRMANN, H. and COX, W. M. Phosphate esters in embryonic tissue, 1951, 165: 711
- *See* CSAPÓ, Á.
- HERSHBERG, D.: *see* ERSHOFF, B. H.
- HERTZ, R. and MEYERS, R. K. Quantitative effects of androgenic substance, 1938, 124: 259
- HERTZ, S., ROBERTS, A., MEANS, J. H. and EVANS, R. D. Radioactive iodine in thyroid physiology, 1940, 128: 565
- HERTZMAN, A. B. Blood supply to various skin areas, 1938, 124: 328
- Vasoconstrictor reflexes in skin arteries of hand, 1941, 134: 59
- and DILLON, J. B. Arterial and other components in plethysmography, 1940, 130: 177
- and DILLON, J. B. Reactions of arteries to vasoconstrictor stimuli, 1940, 130: 56
- and DILLON, J. B. Vascular activity in skin and nasal septum, 1939, 127: 671
- and ROTH, L. W. Absence of vasoconstrictor reflexes in forehead, 1942, 136: 692
- and ROTH, L. W. Arterial reactions of finger to local cold, 1942, 136: 680
- and ROTH, L. W. Vascular reactions of finger to cold, 1942, 136: 669
- , RANDALL, W. C. and JOCHIM, K. E. Blood flow and blood content of skin, 1947, 150: 122
- , RANDALL, W. C. and JOCHIM, K. E. Skin volume pulse and blood flow, 1946, 145: 716
- *See* RANDALL, W. C.
- HERWICK, R. P.: *see* KOPPANYI, T.
- HESPERIDIN: *see* VITAMIN P FLAVONOIDS
- HESPERIDIN METHYL CHALCONE: *see* VITAMIN P FLAVONOIDS
- HESS, MARILYN E.: *see* AVIADO, D. M., JR.
- HESTER, H. R., ESSEX, H. E. and MANN, F. C. Secretion of urine in the chicken, 1940, 128: 592
- *See* CODE, C. F.
- HETHERINGTON, A. W. Hypothalamic obesity in hypophysectomized rats, 1943, 140: 89
- and RANSON, S. W. Activity and food intake after hypothalamic lesions, 1942, 136: 609
- *See* FISHER, C.
- HETHERINGTON, W. A.: *see* ROEPKE, R. R.
- HETTWER, J. P. Excitability of nerve and carbon dioxide tension, 1938, 122: 275
- HEWSTON, ELIZABETH M.: *see* DANIEL, ESTHER P.
- N-(n-HEXADECYL)- β -CARBOMETHOXY PYRIDINIUM SALTS
- as histamine releasing agents, 1951, 167: 234
- HEXAETHYLTETRAPHOSPHATE
- anoxia and action of, 1951, 164: 567
- respiration and electrical activity of frog brain, 1949, 157: 299
- HEXESTROL: *see* ESTROGENS
- HENOBARBITAL
- blood of rat, 1950, 160: 277

HEXOKINASE

activity in muscle and neurotomy, 1951, 167: 656

HEXOSE PHOSPHATES

acetylcholine sensitivity of muscle, 1946, 145: 420

conversion to pentose, 1950, 162: 421

metabolism in muscle, 1939, 126: 391; 1940, 129: 229; 1942, 137: 753; 1943, 140: 318; 1944, 142: 147

muscle contraction, 1946, 145: 420

of brain, stimulation, 1950, 160: 206

of muscle, age, 1945, 145: 79

of tissues in hemorrhagic shock, 1946, 147: 446

HEXOSE DIPHOSPHATE: *see* HEXOSE PHOSPHATES

HEXOSE MONOPHOSPHATE: *see* HEXOSE PHOSPHATES

HEXYLRESORCINOL

absorption from alimentary tract, 1942, 135: 330

enzyme activity, 1942, 135: 335

intestinal absorption of insulin, 1939, 128: 82; 1939, 128: 94

HEYN, C. B.: *see* ATEN, A. H. W., JR.

HGF: *see* INSULIN, hyperglycemic factor

HIATT, E. P. Adrenaline, acetylcholine and the elasmobranch auricle, 1943, 139: 45

— Cinchona alkaloids and blood pressure, 1948, 155: 114

— Hypochloremia induced by nitrate administration, 1940, 129: 597

— Renal filtration and blood flow after denervation, 1942, 136: 38

— Sympatholytic cinchona alkaloids, 1950, 160: 212

— and GARREY, W. E. Drug reactions of beating turtle ventricle, 1943, 138: 758

— and SUHRIE, VIRGINIA. Renal hyperemia with cinchona alkaloids, 1947, 148: 684

HIBERNATING GLAND: *see* BROWN ADIPOSE TISSUE

HIBERNATING MASS: *see* BROWN ADIPOSE TISSUE

HIBERNATION

blood changes during, 1951, 167: 633

blood picture, 1942, 137: 431

circulatory changes during arousal, 1950, 163: 566

response of nerve conduction to cooling, 1948, 155: 179

HICK, F. K.: *see* GLICKMAN, N.

HICKAM, J. B.: *see* ATWELL, R. J.

HICKEY, R. C.: *see* HARE, K.

HIESTAND, W. A. and BRODIE, D. C. Pituitary extracts and survival of respiratory center, 1945, 144: 658

— and MILLER, HELEN R. Factors in hypoxic resistance of mice, 1944, 142: 310

— and NELSON, J. W. Survival of isolated respiratory center, 1946, 146: 241

— and RANDALL, W. C. Proprioceptive vagal afferents in respiratory panting, 1942, 138: 12

—, TSCHIRGI, R. D. and MILLER, HELEN R. Glycotropic substances on respiratory center survival, 1944, 142: 153

— *See* RANDALL, W. C.

— *See* STEMLER, F. W.

— *See* ZARROW, M. X.

HIGGINS, G. M.: *see* INGLE, D. J.

HIGH SALT DIET

work performance after adrenalectomy, 1940, 129: 280

HIGHMAN, B.: *see* ALTLAND, P. D.

HILDING, A. C. Ciliary action of trachea, 1951, 167: 108

HILFINGER, M. F.: *see* WESTERFELD, W. W.

HILL, DOROTHY: *see* GROLLMAN, A.

HILL, J. M.: *see* ASHWORTH, C. T.

— *See* MUIRHEAD, E. E.

HILL, R. M. Control of body temperature in white rats, 1947, 149: 650

— *See* HOLTKAMP, D. E.

— *See* WARE, A. G.

HILL, W. T. and MYERS, G. S. Effect of piperidomethyl-3-benzodioxane on heart, 1939, 126: 305

— *See* MYERS, G. S.

HILLER, ALMA: *see* HAMILTON, P. B.

HILLS, O. W.: *see* HORWITT, M. K.

HILTON, J. G.: *see* BERLINER, R. W.

HIMMELSTEIN, A. *see* COURNAND, A.

— *See* HAMILTON, W. F.

— *See* MOTLEY, H. L.

— *See* RILEY, R. L.

HIMWICH, H. E. and FAZEKAS, J. F. Metabolism of infant and adult brain, 1941, 132: 454

—, BAKER, ZELMA and FAZEKAS, J. F. Respiratory metabolism of infant brain, 1939, 125: 601

—, BERNSTEIN, A. O., FAZEKAS, J. F., HERRLICH, H. C. and RICH, EDITH. Some factors influencing brain metabolism, 1942, 137: 327

—, BERNSTEIN, A. O., HERRLICH, H. C., CHESLER, ANNETTE and FAZEKAS, J. F. Maintenance of life in newborn during anoxia, 1942, 135: 387

—, BOWMAN, K. M., DALY, C., FAZEKAS, J. F., WORTIS, J. and GOLDFARB, W. Blood flow and brain metabolism in hypoglycemia, 1941, 132: 640

—, FAZEKAS, J. F. and MARTIN, S. J. Diabetes after ligation of lumbo-adrenal veins, 1938, 123: 725

—, FAZEKAS, J. F. and NESIN, SARAH. Glucose and lactic acid exchanges in hypoglycemia, 1939, 127: 685

—, HADIDIAN, Z., FAZEKAS, J. F. and HOAGLAND, H. Cerebral activity during insulin hypoglycemia, 1939, 125: 578

—, SYKOWSKI, P. and FAZEKAS, J. F. Metabolism of adult and infant cerebral tissue, 1941, 132: 293

— *See* CHESLER, ANNETTE

— *See* FAZEKAS, J. F.

— *See* FERRIS, SHIRLEY

— *See* FREEDMAN, A. M.

— *See* HIMWICH, WILLIAMINA A.

— *See* HOMBURGER, E.

— *See* LIBET, B.

— *See* SYKOWSKI, P.

HIMWICH, WILLIAMINA A. and HIMWICH, H. E. Influence of some organs on pyruvate level in blood, 1947, 148: 323

— and SAUNDERS, J. P. Enzyme conversion of —CN to —CNS, 1948, 153: 348

— *See* HOMBURGER, E.

- See OHLSON, MARGARET A.
 — See SAUNDERS, J. P.
- HINES, H. M. and KNOWLTON, G. C. Rate of atrophy of denervated muscle, 1939, 128: 97
- , LAZERE, B., THOMSON, J. D. and CRETZMEYER, C. H. Vitamin E in neuromuscular atrophy and regeneration, 1943, 139: 183
- , MELVILLE, ELEANOR V. and WEHRMACHER, W. H. Electrical stimulation and neuromuscular regeneration, 1945, 144: 278
- , THOMSON, J. D. and LAZERE, B. Muscle atrophy due to denervation and acute inanition, 1943, 140: 115
- , THOMSON, J. D. and LAZERE, B. Quantitative studies of muscle and nerve regeneration, 1942, 137: 527
- , WEHRMACHER, W. H. and THOMSON, J. D. Nerve and muscle changes after denervation, 1945, 145: 48
- See DIAZ-GUERRERO, R.
 — See GILBERT, D. L.
 — See KEMP, C. R.
 — See KNOWLTON, G. C.
 — See LAZERE, B.
 — See MORGAN, J. A.
 — See THOMSON, J. D.
- HINRICH, MARIE A.: see McLEAN, F. C.
- HINSEY, J. C.: see GEOHEGAN, W. A.
- HIPPOCAMPUS
 ablation of and olfactory conditioned reflexes, 1941, 132: 81
 lesions in, olfactory conditioned reflexes, 1940, 128: 754
 respiration in frog, 1942, 136: 53
- HIPPURIC ACID
 clearance, 1947, 148: 389
 cinchona alkaloids, 1947, 148: 685
 uric acid excretion during synthesis of, 1944, 140: 553
- HIPPUS
 rhythmicity of iris sphincter, 1941, 133: 108
- HIRSCH, J. DOROTHY: see GRANT, R.
- HISTADYL
 nerve fiber, 1951, 164: 515
 nerve sheath as barrier to penetration of, 1951, 166: 239
- HISTAMINASE
 adrenocortical hormones, 1940, 130: 539
 adrenalectomy, 1940, 130: 540
 gastric response to histamine, 1941, 132: 51
 of rat tissue, 1940, 129: 221
 of various organs, 1946, 146: 58
- HISTAMINE
 action of heparin, 1951, 165: 199
 anesthesia and release in anaphylaxis, 1940, 129: 735
 anoxia and action of, 1951, 164: 567
 antagonism to pitressin, 1938, 124: 142
 aortic, portal and inferior vena caval pressure, 1946, 146: 199
 arterial pressure, 1950, 160: 422
 as mediator for cutaneous pain, 1948, 155: 186
 as stimulant for depolarized gastric mucosa, 1945, 144: 125
 assay, of nasal secretions on guinea pig ileum, 1945, 144: 711
 attempt to condition gastric secretion to, 1939, 128: 10
 ballistocardiograph, 1941, 134: 419
 blood flow in bronchial artery, 1947, 148: 661
 blood glutathione, 1951, 165: 575
 blood K in adrenalectomized rats, 1945, 144: 104
 blood sugar level in radiation syndrome, 1951, 165: 38
 capillary permeability, 1948, 154: 23
 cardiac output, 1947, 148: 136
 cardiovascular sensitivity to potassium, 1947, 149: 593
 cardiovascular system and, as determined by radio-active krypton, 1945, 144: 166
 cerebral blood flow, 1943, 138: 426
 denervated muscles, 1949, 158: 141
 desensitization to, 1951, 167: 268
 double test for pepsin secretion, 1941, 132: 654
 electrical potential of gastric mucosa, 1946, 147: 73; 1947, 149: 87
 fate of intravenously injected, 1938, 124: 412
 gastric secretion, 1943, 140: 138; 1944, 141: 538; 1948, 153: 242
 hair growth, 1940, 129: 554
 hematocrit and blood pressure, 1942, 137: 289
 histaminase and gastric response to, 1941, 132: 51
 inactivation in adrenalectomized animals, 1939, 127: 780
 induction of peptic ulcers, thyroid activity, 1949, 157: 216
 inhibition of release, 1951, 167: 237
 injection of, forearm blood flow, 1947, 150: 187
 intoxication by, in adrenalectomized rats, 1945, 144: 102
 -like substance in nasal secretions, 1945, 144: 711
 in post-partum uterus, 1940, 130: 319
 metabolism of, in the embryo, 1946, 147: 462
 minimal effective dose of, 1949, 157: 94
 of blood, 1938, 124: 415
 during anaphylaxis, 1939, 127: 72; 1939, 127: 78
 hydatid fluid, 1945, 143: 316
 in experimental burns, 1946, 145: 485
 presence and distribution of, 1941, 132: 327
 trypsin, crotalin, 1942, 135: 372
 of blood and bone marrow, 1941, 131: 768
 of gastric juice, 1947, 151: 593
 of gastric mucosa, 1944, 141: 79
 of lung, artery ligation, 1948, 152: 417
 of organs, 1951, 167: 272
 of pancreatic juice and tissue, 1950, 162: 115
 of plasma, crotalin, 1941, 132: 552
 parathyroidectomy and excretion of, 1947, 150: 421
 pepsin of gastric juice, 1950, 163: 31
 pepsin secretion compared to pilocarpine, 1941, 132: 698
 platelet count, 1945, 145: 276
 poisoning and adrenocortical function, 1945, 144: 102

HISTAMINE

- precursor, in hydatid fluid, 1945, 143: 316
 pretreatment with and histaminase of tissue, 1940, 129: 219
 prolonged action of, 1942, 137: 225
 reaction of human umbilical artery to, 1951, 164: 86
 reactivity of pulmonary blood vessels to, 1951, 167: 732
 release from blood cells, 1949, 159: 333
 in rabbit blood, 1951, 167: 233
 reticulo-endothelial system, 1951, 164: 825
 sensitivity of mucosal and peritoneal surfaces of ileum to, 1946, 145: 677
 serosa and mucosa of the intestine, 1947, 148: 720
 stimulation of gastric mucin, 1949, 158: 194
 subcutaneous, circulation, 1944, 142: 158
 survival to explosive decompression, 1950, 163: 401
 synergistic with caffeine on gastric secretion, 1944, 142: 109
 thiocyanate and, gastric potentials, secretion, 1945, 144: 702
 thyroid and poisoning, 1949, 157: 216
 tolerance in x-irradiated mice, 1951, 167: 321
 uropepsin excretion, 1948, 153: 454
 vascular reactivity to, 1949, 156: 414
 venous pressure, 1951, 165: 530
 water balance, 1939, 128: 226

HISTAMINE SHOCK

- cervical lymph production in, 1941, 133: 64
 circulatory changes, in, 1944, 142: 158
 pituitary and adrenals, 1941, 133: 623

HISTIDINE

- competition with arginine for tubular reabsorption, 1947, 151: 206
 renal clearance, 1947, 149: 133
 selective retention of nitrogen from, 1939, 126: 219

HISTOLOGY

- of parasympathetically denervated bladder, 1951, 166: 692

HITCHCOCK, F. A. and FERGUSON, J. K. W. Respiratory and circulatory adjustments to standing, 1938, 124: 457

—, GRUBBS, R. C. and HARTMAN, F. A. Adrenal cortical extract and oxygen consumption, 1938, 121: 542

— See HORVATH, S. M.

— See STACY, R. W.

— See WHITEHORN, W. V.

HITCHINGS, G. H., DAUS, MARGARET A. and WEARN, J. T. Chemical changes in cardiac hypertrophy, 1943, 138: 527

HJORT, A. M.: *see* DE BEER, E. J.

HOAGLAND, H. and STONE, D. Brain and muscle potassium in stress, 1948, 152: 423

— See BERGEN, J. R.

— See HINWICH, H. E.

— See ROSENBLUETH, A.

— See SHAPIRO, S.

HODES, B. R.: *see* LISSAK, K.

HODES, R. Efferent pathway for reflex pupillo-motor activity, 1940, 131: 144

— Exercise in sympathectomized cat, 1939, 126: 171

— Nervous cardiac control during cerebral anemia, 1940, 129: 585

— Reciprocal innervation in the small intestine, 1940, 130: 642

— and LARRABEE, M. G. Alveolar CO₂ and decompression sickness, 1946, 147: 603

— and STEIMAN, S. E. Effects of acetylcholine and eserine on frog muscle, 1939, 127: 470

— See BERRY, C. M.

— See HAIMOVICI, H.

— See LARRABEE, M. G.

HODGE, H. C. *see* ARIEL, I.

— See UNDERWOOD, ELIZABETH

HODGES, C. V.: *see* BERG, O. C.

HÖHN, E. O. Thyroid and moult, 1949, 158: 337

HOERR, N. L.: *see* SOLLMANN, T.

HOFF, E. C. and YAHN, CHARLOTTE. Anticonvulsants in resistance to severe acute anoxia, 1944, 141: 7

— See LAMPORT, H.

HOFF, H. E. and BRECKENRIDGE, C. G. Respiratory periodicity, 1949, 158: 157

— and NAHUM, L. H. Electrocardiograms of endo- and epicardial extrasystoles, 1943, 140: 148

— and NAHUM, L. H. Factors in direction of T wave of electrocardiogram, 1941, 131: 700

— and NAHUM, L. H. Localization of myocardial infarcts, 1945, 143: 723

— and NAHUM, L. H. Supernormal period in mammalian ventricle, 1938, 124: 591

— and NAHUM, L. H. Temperature and electrocardiogram, 1948, 153: 176

—, BRECKENRIDGE, C. G. and CUNNINGHAM, J. E. Adrenaline and respiration, 1950, 160: 485

—, HUMM, D. G. and WINKLER, A. W. Serum potassium and vagal response, 1944, 142: 627

—, NAHUM, L. H. and KAUFMAN, W. Distribution of potentials on heart surface, 1943, 138: 644

—, NAHUM, L. H. and KAUFMAN, W. Leads I and III of electrocardiogram, 1941, 134: 390

—, NAHUM, L. H. and KAUFMAN, W. The nature of QI and QIII, 1942, 135: 752

—, NAHUM, L. H. and KISCH, B. Dextro- and levocardigrams, 1941, 131: 687

—, SMITH, P. K. and WINKLER, A. W. Blood pressure and concentration of serum salts, 1939, 127: 722

—, SMITH, P. K. and WINKLER, A. W. Electrocardiographic changes and serum calcium, 1939, 125: 162

—, SMITH, P. K. and WINKLER, A. W. Serum magnesium and response of nervous system, 1940, 130: 292

—, WINKLER, A. W. and SMITH, P. K. Intravenous potassium and recovery of fatigued muscle, 1940, 131: 615

— See BRECKENRIDGE, C. G.

— See GERTLER, M. M.

— See HUGGINS, R. A.

— See LEBLOND, C. P.

— See NAHUM, L. H.

— See SMITH, P. K.

- See TERROUX, K. G.
 — See WENER, J.
 — See WINKLER, A. W.
 HOFFMAN, B. F., GORIN, E. F., WAX, FLORENCE S. SIEBENS, A. A. and BROOKS, C. McC. Ventricular vulnerability, 1951, 167: 88
 — See BROOKS, C. McC.
 — See SIEBENS, A. A.
 HOFFMAN, C. E., CLARK, R. T., JR. and BROWN, E. B., JR. Blood oxygen and consciousness at high altitudes, 1946, 145: 685
 HOFFMAN, C. F.: see WILLIAMS, E. F., JR.
 HOFFMAN, W. K., JR. Atrial inflow and Z-V gradient, 1951, 167: 435
 HOFFMANN, ELENA J. see HOFFMANN, F.
 — See PERKINS, J. F., JR.
 HOFFMANN, F., HOFFMANN, ELENA J., MIDDLETON, S. and TALESNIK, J. Stimulation of mammalian heart by acetylcholine, 1945, 144: 189
 —, HOFFMANN, ELENA J. and TALESNIK, J. Effect of thyroid hormone on mammalian heart, 1947, 148: 689
 — See PERKINS, J. F., JR.
 HOFFMASTER, BETTY: see SPECHT, H.
 HOGAN, A. G. see MUHRER, M. E.
 HOGBEN, C. A. M. and BOLLMAN, J. L. Maximal tubular transport, 1951, 164: 662
 — and BOLLMAN, J. L. Renal reabsorption of phosphate, 1951, 164: 670
 HOKIN, L. E. and REHM, W. S. Salt and gastric potential, 1947, 151: 380
 — See REHM, W. S.
 HOLDEN, R. F., JR. and BULGER, H. A. Volume effects in renal clearances, 1946, 145: 638
 HOLLAND, C. R.: see REINECKE, R. M.
 HOLLAND, W. C. and GREIG, MARGARET E. Erythrocyte permeability, 1950, 162: 610
 — See GREIG, MARGARET E.
 HOLLANDER, F. and STEIN, J. J. Gastric secretion after injection of pilocarpine, 1943, 140: 136
 —, LAUBER, FRANCES U. and STEIN, J. J. Gastric secretion induced by mustard oil suspension, 1947, 149: 724
 —, LAUBER, FRANCES U. and STEIN, J. J. pH of gastric mucous secretion, 1948, 152: 645
 — See BANDES, J.
 — See SOBER, H. A.
 HOLLIDAY, M. A.: see COTLOVE, E.
 HOLLINSHEAD, W. H. Abdominal chemoreceptors, 1946, 147: 654
 — and SAWYER, C. H. Carotid body mechanisms, 1945, 144: 79
 HOLMES, A. D. and PIGOTT, MADELEINE G. Thiamin in muscular dystrophy of avitaminosis-E, 1941, 132: 211
 —, TRIPP, F. and SATTERFIELD, G. H. Vitamin A reserve of fur-bearing animals, 1938, 123: 693
 HOLMES, E.: see MADDOCK, S.
 HOLMES, J. H. Serum potassium in shock from muscle trauma, 1947, 148: 449
 — and CIZEK, L. J. Salt depletion in the dog, 1951, 164: 407
 — and GREGERSEN, M. I. Drinking induced by hypertonic solutions, 1950, 162: 326
 — and GREGERSEN, M. I. Role of sodium and chloride in thirst, 1950, 162: 338
 — and GREGERSEN, M. I. Thirst and salivary flow, 1947, 151: 252
 — and PAINTER, ELIZABETH E. Extracellular fluid in traumatic shock, 1947, 148: 201
 — See ALLISON, J. B.
 — See CIZEK, L. J.
 — See PAINTER, ELIZABETH E.
 — See ROOT, W. S.
 HOLT, J. P. Collapse factor in measurement of venous pressure, 1941, 134: 292
 — Intrathoracic pressure and circulation, 1944, 142: 594
 — Intrathoracic pressure and venous pressure in man, 1943, 139: 208
 — Measurement of venous pressure in man, 1940, 130: 635
 — and LAWSON, H. C. Vascular volume and blood flow in dog, 1939, 127: 492
 —, RASHKIND, W. J., BERNSTEIN, R. and GREISEN, J. C. Regulation of arterial blood pressure 1946, 146: 410
 — See SHORE, R.
 HOLT, L. E., JR.: see RICHTER, C. P.
 HOLTKAMP, D. E., HILL, R. M., LONGWELL, B. B., RUTLEDGE, ENID K. and BUCHANAN, A. R. Failure of adrenal cortex in cold protection, 1949, 156: 368
 HOMBURGER, E., HIMWICH, WILLIAMINA A., ETSTEN, B., YORK, G., MARESCA, R. and HIMWICH, H. E. Effect of pentothal anesthesia on cerebral cortex, 1946, 147: 343
 — See JOSEPH, N. R.
 HOMEOSTASIS
 hepatorenal factors in, 1950, 162: 198
 of extracellular potassium, 1949, 156: 290
 sympathectomy, 1939, 125: 530
 HONG, J.: see NICHOLSON, H. C.
 HONORATO, R. Plasmatic cofactor of thromboplastin, 1947, 150: 381
 — and QUICK, A. J. Fibrinogen and coagulation factor in stored plasma, 1947, 150: 405
 HOOK, W. E. and BARRON, E. S. G. Respiration of brown adipose tissue, 1941, 133: 56
 HOOKER, C. W.: see PFEIFFER, C. A.
 HOOKER, D. R., KOUWENHOVEN, W. B. and YORK, J. A. Artificial respiration applied to anesthetized men, 1942, 137: 649
 HOOKER, DONALD RUSSELL. An appreciation of and portrait, 1947, 148: frontispiece
 HORN, H. W.: see KOEFF, G. F.
 HORSE
 blood histamine during anaphylaxis, 1939, 127: 71
 folic acid of blood, 1947, 148: 320
 heparin and plasma coagulation, 1943, 139: 614
 histamine of blood and bone marrow, 1941, 131: 768
 mare, gonadotropic hormone in non-pregnant, 1939, 117: 702
 motor integration in, 1943, 139: 745

- HORSE**
 prothrombin concentration in blood, 1941, 132: 242
 sustained pressor principle from, 1948, 153: 344
 vitamin B of whole blood, 1950, 163: 79
- HORTON, B. T.:** *see* ROTH, GRACE M.
- HORVATH, S. M.** Effects of exposure to cold and wind, 1948, 152: 242
 — Phosphocreatine in muscle after gelatin ingestion, 1943, 138: 254
 — Phosphorous compounds of muscle with advancing age, 1945, 145: 77
 — and CORWIN, W. Creatinine-creatinine excretion in schizoprenics, 1941, 133: 679
 — and SHELLEY, W. B. Acclimatization to heat and ability to work, 1946, 146: 336
 —, DILL, D. B. and CORWIN, W. Effects on man of severe oxygen lack, 1943, 138: 659
 —, FREEDMAN, A. and GOLDEN, H. Acclimatization to extreme cold, 1947, 150: 99
 —, HITCHCOCK, F. A. and HARTMAN, F. A. Response to cold after reduction of adrenal tissue, 1938, 121: 178
 —, KNEHR, C. A. and DILL, D. B. Glycine and muscular strength, 1941, 134: 469
 —, RUBIN, A. and FOLTZ, E. L. Thermal gradients in vascular system, 1950, 161: 316
 — *See* CHIODI, H. P.
 — *See* DILL, D. B.
 — *See* EICHNA, L. W.
 — *See* NELSON, N.
 — *See* ROBINSON, S.
 — *See* ROUGHTON, F. J. W.
- HORWITT, B. N.:** *see* SHIPLEY, R. A.
- HORWITT, M. K., HILLS, O. W. and KREISLER, O.** Blood lactate and pyruvate in diabetes, 1949, 156: 92
- HORWITZ, O.** Contractions of cardiac muscle, 1951, 165: 285
- HORWITZ, S. A.:** *see* GALDSTON, M.
- HOUSHIN, O. B. and SMITH, P. W.** Heart in vitamin E deficiency, 1944, 141: 242
 — *See* GRAHAM, W. R., JR.
- HOUCK, C. R.** Hemodynamics and renal function, 1951, 166: 649
 — Plasma mannitol and PAH after nephrectomy, 1951, 165: 102
 — Renal hemodynamics, 1951, 167: 523
 — Renal plasma flow, 1948, 153: 169
 —, BING, R. J., CRAIG, F. N. and VISSCHER, F. E. Renal hyperemia, 1948, 153: 159
 — *See* CRAIG, F. N.
 — *See* RICHARDSON, J. A.
 — *See* SELKURT, E. E.
- HOUGH, V. H. and FREEMAN, S.** Protein diet hepatic clearance and serum phosphatase, 1942, 138: 184
 —, MONAHAN, E. P., LI, T-W. and FREEMAN, S. Protein deficient diet and decreased hepatic function, 1943, 139: 642
 — *See* BERMAN, A. L.
 — *See* LI, T-W.
- HOUSSAY, B. A., DOSNE, C. and FOGLIA, V. G.** Maintenance of normal blood sugar after evisceration, 1944, 141: 1
- HOUSTON, C. S.** Pulmonary ventilation and anoxemia, 1946, 146: 613
 — and RILEY, R. L. Changes during acclimatization to high altitude, 1947, 149: 565
- HOVE, E., ELVEHJEM, C. A. and HART, E. B.** Aluminum in the nutrition of the rat, 1938, 123: 640
 —, ELVEHJEM, C. A. and HART, E. B. Arsenic in nutrition of rat, 1938, 124: 205
 —, ELVEHJEM, C. A. and HART, E. B. Boron in animal nutrition, 1939, 127: 689
 —, ELVEHJEM, C. A. and HART, E. B. Zinc deficiency in rats, 1938, 124: 750
 — *See* TERESI, J. D.
- HOWARD, F. and MODLINGER, R.** Tryptophane and blood sugar levels, 1948, 153: 425
- HOWE, P. E. and BERRYMAN, G. H.** Average food consumption in training camps, 1945, 144: 588
- HOWLETT, J. and BROWNE, J. S. L.** Water balance in the alarm reaction, 1940, 128: 225
- HRUBETZ, M. CAROLINE and BLACKBERG, S. N.** Carbohydrate changes and barbiturate anesthesia, 1938, 122: 759
- HSIEH, C. K.:** *see* PEARSON, O. H.
- HSU, S.-H., HWANG, K. and CHU, H.-N.** Motor cortex stimulation and cardiovascular changes, 1942, 137: 468
- HUANG, K. C.:** *see* CIZEK, L. J.
- HUBBARD, A. W. and STETSON, R. H.** Analysis of human locomotion, 1938, 124: 300
- HUBBARD, R. S. and ANDERSON, R. K.** Sucrose in body fluids after intravenous injection, 1942, 137: 722
 — and GRIFFITH, F. R., JR. Excretion of urea under basal conditions, 1944, 141: 469
 — *See* LOOMIS, T. A.
- HUBER, OLIVE.** Plasma volume and hematocrit values after hemorrhage, 1947, 148: 424
- HUDDLESTON, O. L. and WHITE, C. S.** Segmental innervation of antagonistic muscles, 1943, 138: 772
- HUDDLESTON, B.:** *See* LEVINE, R.
 — *See* WEISBERG, H. F.
- HUF, E. G. and FISCHER, E.** Chemical factors in muscular atrophy, 1949, 159: 6
 — and PARRISH, JOYCE. Salt accumulation and frog skin, 1951, 164: 428
 — and WILLS, JOYCE. Salt and water uptake by frog skin, 1951, 167: 255
 —, PARRISH, JOYCE and WEATHERFORD, CAROLYN. Salt uptake by frog skin, 1951, 164: 137
- HUFF, R. L., TRAUTMAN, R. and VAN DYKE, D. C.** Parabiosis, 1950, 161: 56
 — *See* VAN DYKE, D. C.
- HUGGINS, C. and VAIL, VIRGINIA C.** Coagulation and fibrinogenolysis by prostatic fluid, 1943, 139: 129
 —, SCOTT, W. W. and HEINEN, J. H. Chemistry of secretions of male reproductive glands, 1942, 136: 467

- See BERG, O. C.
 — See SHIH, H. E.
 HUGGINS, R. A., BRECKENRIDGE, C. G. and HOFF, H. E. Potassium distribution and sympatholytic agents, 1950, 163: 153
 —, HANDLEY, C. A. and LA FORGE, M. Drug effects in hypotension, 1949, 157: 352
 —, SEIBERT, R. A. and BRYAN, A. R. Infused K and liver concentration, 1951, 167: 514
 —, SMITH, E. L. and SINCLAIR, M. A. Accuracy of the rotameter, 1950, 160: 183
 —, SMITH, E. L. and SINCLAIR, M. A. Cardiac output, 1949, 159: 385
 HUDOBRO, F. and BRAUN-MENENDEZ, E. Secretion of renin by intact kidney, 1942, 137: 47
 — and POBLETE, R. Muscular effectors and denervation, 1949, 158: 141
 — See ALTAMIRANO, M.
 HUMEL, E. J., Jr.: see SHIPLEY, R. A.
 HUMIDITY
 air temperature, 1945, 143: 21
 blood volume, 1946, 146: 747
 body temperature during anoxia, 1950, 161: 312
 growth with varied thiamin intake, 1945, 144: 643
 heat loss at various relative humidities, 1940, 128: 788
 heat loss and blood flow in hand, 1946, 146: 606
 panting, 1943, 139: 59
 reactions of clothed body to, 1938, 124: 692
 severe heat and, sweating, temperature control, 1946, 147: 370
 survival to anoxia, 1950, 161: 307
 work production in heat, 1940, 131: 54
 HUMM, D. G.: see GERTLER, M. M.
 — See HOFF, H. E.
 HUMM, JANE H., KOCHAKIAN, C. D. and BARTLETT, MARY N. Effects of castration, 1948, 155: 251
 — See KOCHAKIAN, C. D.
 HUMMON, I. F.: see PATRAS, MARY C.
 HUMOLLER, F. L., GRISWOLD, BARBARA and MCINTYRE, A. R. Dehydrogenase activity of muscle, 1951, 164: 742
 —, GRISWOLD, BARBARA and MCINTYRE, A. R. Muscle atrophy, 1950, 161: 406
 —, HATCH, DOROTHY and MCINTYRE, A. R. Neurotomy and rat muscle activity, 1951, 167: 656
 HUMPHREYS, R. J.: see RAAB, W.
 HUNDLEY, J. M., ASHBURN, L. L. and SEBRELL, W. H. Electrocardiogram in chronic thiamine deficiency, 1945, 144: 404
 HUNGER
 alcohol, 1938, 123: 248
 blood sugar level, 1938, 123: 248
 fasting pancreatic secretion, 1940, 131: 60
 salivary conditioned reflex, 1938, 123: 379
 stomach, 1943, 138: 314
 HUNGERFORD, G. F. and REINHARDT, W. O. Anesthesia and lymph flow, 1950, 160: 9
 HUNT, C. C.: see WESCOE, W. C.
 HUNTER, J.: see GESELL, R.
 — See SOLANDT, D. Y.
 HURN, MARGARET: see BERKSON, J.
 — See MANN, F. D.
 HURSH, J. B. Conduction velocity and diameter of nerve fibers, 1939, 127: 131
 — Properties of growing nerve fibers, 1939, 127: 140
 HURST, V. and TURNER, C. W. Thyroid secretion rate of growing and mature mice, 1947, 150: 686
 HURTADO, A.: see ASTE-SALAZAR, H.
 HURVICH, L. M.: see MCFARLAND, R. A.
 HUSTON, J. H.: see WARKENTIN, J.
 HUTCHESON, Z. W.: see ASHWORTH, C. T.
 HUTCHINS, H. C.: see REYNOLDS, O. E.
 HWANG, K., ESSEX, H. E. and MANN, F. C. Emesis in dogs after vagotomy, 1947, 149: 429
 —, GROSSMAN, M. I. and IVY, A. C. Nervous control of esophagus, 1948, 154: 343
 — See HSU, S.-H.
 HWANG, W., AKMAN, L. C., MILLER, A. J., SILBER, E. N., STAMLER, J. and KATZ, L. N. Venous pressure and sodium excretion, 1950, 162: 649
 —, RODBARD, S., STAMLER, J., GROS, G. and WEINBERG, S. L. Depressor response to inflammation in dogs, 1950, 163: 430
 — See PREC, O.
 — See STAMLER, J.
 HYALURONIDASE
 capillary permeability, 1949, 156: 429
 enzyme inhibitor system, 1951, 166: 555
 inhibitor, adrenal cortex, 1951, 166: 555
 level in serum, 1951, 156: 555
 titer, spermatozoa count, fertilization, 1948, 152: 271
 HYDANTOIN
 acetylcholine metabolism, 1947, 151: 346
 HYDATIC CYST FLUID
 histamine content of blood, 1945, 143: 316
 shock produced by, 1947, 148: 243
 toxicity to dogs, 1945, 143: 306
 HYDE, JANE and GELLHORN, E. Motor cortex stimulation, 1949, 156: 311
 HYDE, JANE E.: see WELSH, J. H.
 HYDRATION
 kidney function, 1949, 159: 178
 prevention of hemorrhagic shock, 1945, 144: 509
 HYDROCHLORIC ACID
 blood coagulation, 1940, 130: 576
 formation by stomach, 1940, 131: 165; 1951, 164: 187
 gastric activity, 1942, 137: 155
 gastric secretion of, thiocyanate, histamine, 1945, 144: 702
 in gastric juice, 1941, 133: 542
 in vitro secretion by mucosa, 1940, 130: 327
 M/10, replacement of perilymph with, 1939, 125: 695
 muscle contraction, 1945, 145: 7
 potential of stomach, 1944, 141: 543; 1951, 164: 191
 protein constituents of pancreatic juice, 1945, 145: 144
 salt and secretion of, 1947, 151: 380
 secretion by stomach, and electric potential, 1945, 144: 115

HYDROCHLORIC ACID

specific gravity and total nitrogen of pancreatic juice, 1944, 140: 575

HYDROGEN ION CONCENTRATION

absorption of insulin from the alimentary tract, 1939, 128: 82; 1941, 132: 281

anticholinesterase activity of, 1945, 144: 160

blood coagulation, 1940, 128: 404

calcium content and buffer value of gastric juice, 1941, 132: 467

change in muscle after contraction, 1938, 121: 311

chloride excretion, 1950, 162: 668

cochlear potentials, 1939, 125: 696

coronary blood flow, 1947, 148: 594

during acclimatization to high altitude, 1947, 149: 573

electrical activity of cerebral cortex, 1938, 124: 631

erythrocyte fragility, 1943, 138: 519

experimental convulsions, 1948, 153: 580

focal cerebral, recording of, 1940, 128: 489

gastric activity, 1942, 137: 155

in vitro oxygen consumption of tissues, 1939, 127: 290

mammalian heart, 1942, 136: 333

mechanism of effect on respiration, 1945, 144: 126

mechanism of influence on nervous integration, 1945, 144: 126

metabolism of spermatozoa, 1943, 138: 744

of arterial blood and urine, pulmonary ventilation, 1941, 132: 272

of blood, during decompression and anoxia, 1944, 142: 484

during hemorrhagic and traumatic shock, 1947, 149: 52

gravity shock, 1944, 141: 166

in vivo, 1946, 146: 4

meteorological conditions, 1940, 130: 9

potassium liberation from muscle, 1939, 128: 143

stimulation of, synovial fluid, 1946, 146: 8

of blood and tissue, hypotonic saline injection, 1949, 159: 61

of coronary venous blood, 1938, 123: 441

of gastric and duodenal contents, 1942, 136: 369

of gastric mucous secretion, 1948, 152: 645

of gastric secretions during flow of electric current, 1945, 144: 116

of genital tract, 1940, 130: 290

of intestine, 1939, 128: 176

of muscle, ischemic work, 1939, 125: 736

of plasma, asphyxia, resuscitation, 1946, 147: 435
during hibernation, 1951 167: 633

of pyloric and duodenal contents, 1942, 136: 160

of renal cortex, 1950, 163: 181

of serum, exercise, 1940, 128: 420

of stomach after ingestion of glucose, 1945, 144: 612

of tissues in vivo, 1946, 146: 1

of urine, at high altitude, 1946, 146: 714
excretion of chloride, ammonia and phosphate, 1941, 132: 275

pulmonary ventilation, 1941, 132: 272

renal acid-base regulation, 1946, 147: 481

of urine and plasma, and acid base balance, 1946, 147: 138

of venous blood, 1938, 123: 441

point of tolerance for dog heart, 1946, 146: 479

regulation of, in oxygen lack and presence of CO₂, 1940, 129: 49

renal regulation of, 1947, 148: 54

respiratory center, 1944, 142: 125

respiratory flow in sharks, 1945, 145: 137

reversible, oxygen consumption, 1941, 132: 564

smooth muscle activity, 1951, 167: 386

thrombin activity, 1942, 137: 351

tropic hormones, 1939, 125: 116

water uptake by frogs, 1938, 122: 198

HYDROQUINONE

acetylcholine synthesis, excitation, 1946, 147: 384

clotting time, 1945, 144: 450

muscle sensitivity to acetylcholine and potassium, 1946, 145: 610

HYDROSTATIC PRESSURE

respiratory flow in sharks, 1945, 145: 136

2-HYDROXY CINCHONINIC ACID: *see* CINCHONINIC ACIDS, 2-hydroxy2-HYDROXY-3-METHYL CINCHONINIC ACID: *see* CINCHONINIC ACIDS, 2-hydroxy-3-methyl3-HYDROXY-2-METHYL CINCHONINIC ACID: *see* CINCHONINIC ACIDS, 3-hydroxy-2-methyl2-HYDROXY-3-PHENYL CINCHONINIC ACID: *see* CINCHONINIC ACIDS, 2-hydroxy-3-phenyl3-HYDROXY-2-PHENYL CINCHONINIC ACID: *see* CINCHONINIC ACIDS, 3-hydroxy-2-phenyl

p-HYDROXYBENZOIC ACID

adrenaline oxidation by tyrosinase, 1942, 136: 67

β-HYDROXYBUTYRIC ACID

acetylcholine sensitivity of muscle, 1946, 145: 420

as a buffer in the urine, 1945, 144: 252

as substrate for perfused rat heart, 1949, 158: 272

utilization of, 1940, 130: 145

by heart-lung preparation, 1938, 122: 542; 1938, 123: 272

HYDROXYLAMINE

CO metabolism in muscle, 1940, 129: 208

oxygen consumption of frog muscle, 1941, 135: 243

respiration and action potential, 1950, 162: 461

p-HYDROXYPHENYLACETIC ACID

adrenaline oxidation by tyrosinase, 1942, 136: 67

HYDROXYQUINOLINE

nerve conduction, 1950, 163: 197

response to epinephrine, 1943, 140: 370

8-, muscle sensitivity to acetylcholine and potassium, 1946, 145: 610

response to epinephrine, 1943, 140: 369

HYDROXYTYRAMINE

formation, by renal cortex, 1941, 132: 497

HYLA SQUIRELLA: *see* FROG

HYMAN, C. Filtration across the vascular wall, 1944, 142: 671

— and GOODMAN, J. Fluid loss in pressure breathing, 1948, 155: 208

— *See* PONDER, E.

— *See* STAUFFER, F.

HYOSCINE

- adaptation to motion sickness, 1948, 154: 444
- therapy in motion sickness, 1946, 146: 462

HYOSCYAMINE

- treatment of motion sickness, 1946, 146: 461

HYPERCALCEMIA: *see* CALCIUM, of serum

HYPERCAPNEMIA: *see* CARBON DIOXIDE TENSION, of blood

HYPERCAPNIA

- accommodation in motor nerves, 1942, 136: 642
- accompanying anoxia, respiratory responses to, 1941, 133: 1
- blood, 1940, 129: 526
- blood flow in bronchial artery, 1947, 148: 662
- carotid body, 1942, 136: 203
- respiratory center, 1945, 144: 129

HYPEREMIA

- due to deflation of intestine, 1941, 134: 147
- hair growth, 1940, 129: 557
- of kidney, 1948, 153: 159
- altitude, 1943, 140: 388
- cinchona alkaloids, 1947, 148: 684

HYPERGLYCEMIA

- adrenaline, anterior pituitary, 1942, 137: 124
- proportionality with dose, 1939, 126: 299
- due to insulin, 1948, 153: 197; 1949, 159: 98
- emotional, in tropical mammals and reptiles, 1939, 125: 730
- in shock, 1944, 142: 638
- in tourniquet shock, 1945, 144: 494
- inhibition with adrenergic blocking drugs, 1951, 165: 66
- produced by sympathin in emotional excitement, 1938, 121: 738
- production following acid stimulation of duodenum, 1940, 128: 304
- vitamin C excretion, 1940, 130: 278

HYPERGLYCEMIA PRINCIPLE: *see* ANTERIOR PITUITARY HORMONES

HYPERGLYCEMIC-GLYCOGENOLYTIC FACTOR: *see* INSULIN, hyperglycemic factor

HYPERICIN

- production of photosensitivity by, 1942, 136: 651

HYPERICISM

- etiology of, 1942, 136: 650

HYPERMETROPIA

- due to injection of fluids into vitreous humor, 1947, 150: 570

HYPERPNEA

- central neurone after-discharge of, 1938, 122: 48
- of exercise and reflexes from limbs, 1943, 138: 536
- recruitment muscle, 1938, 122: 48
- reflex, due to ischemic excitation of carotid body, 1938, 124: 238

HYPERPYREXIA: *see* FEVER

HYPERTENSINASE

- relation to hypertension, 1947, 150: 190

HYPERTENSINOGEN

- hypertension, 1947, 150: 190
- of blood, age, body weight, 1949, 158: 401
- in early hemorrhage hypotension, 1949, 156: 454

of lymph, 1946, 146: 670

of plasma following renin injection, 1946, 146: 670

HYPERTENSION

- adrenal cortex, 1951, 166: 185
- adrenalectomy and, 1938, 122: 352; 1938, 123: 224
- nephrectomy, 1951, 164: 73
- adrenals, 1951, 164: 61
- after cisternal injection of kaolin, 1938, 124: 86
- anti-pressor action of renal extracts, 1940, 128: 716
- blood pressure and renal clearance in, 1950, 160: 21
- cerebral ischemia, 1948, 154: 45
- chemical changes in, 1950, 161: 448
- choline deficiency and, 1950, 162: 189; 1951, 164: 68
- cholinergic physiology, 1945, 144: 160
- DCA, adrenals on, 1949, 157: 241
- diencephalic, measurement of pulse and alpha waves in, 1942, 136: 452
- emotion, 1945, 144: 331
- excretion of urinary antidiuretic in, 1943, 138: 465
- exposure to cold air, 1950, 161: 89
- 933F, 1939, 127: 29
- in parabiotic rats, 1943, 138: 587
- intracranial, arterial response to, 1943, 139: 347
- kidneys, 1944, 142: 666
- in pathogenesis, 1949, 157: 21
- liberation of renin in, 1940, 130: 22
- limitations of renin-hypertensin hypothesis, 1948, 152: 397
- Na and Cl clearances in, 1951, 165: 328
- neurogenic, cardioacceleration in, 1951, 166: 12
- cinchona alkaloids on, 1948, 155: 114
- organ weights, 1939, 125: 589
- oxidases and pressor amines in, 1942, 136: 66
- oxygen tension and pH of renal cortex, 1950, 163: 181
- p-quinones on, 1945, 143: 179
- pithing, 1940, 130: 1
- potassium deprivation and, 1951, 167: 457
- pregnancy, 1947, 151: 373
- pressor substances in, 1950, 160: 409
- production by chronic renal artery-nerve stimulation, 1945, 145: 44
- by DCA, cortisone, 1950, 163: 319
- by increased intracranial pressure, 1940, 128: 662
- by 1-dopa, 1945, 143: 122
- progressive sympathectomy in, 1940, 128: 662
- reduction of by renal extract, 1940, 130: 497
- renal blood pressure, blood flow, 1941, 134: 492
- renal ischemia and, 1940, 130: 786; 1946, 147: 647
- renin in prophylaxis of, 1942, 137: 517
- renin of renal venous blood, 1947, 150: 198
- resistance of vascular bed, 1949, 159: 471
- restriction of salt and protein in, 1950, 163: 190
- salt ingestion and, in chicken, 1948, 152: 557
- salt and water intake, 1949, 156: 244
- size and distensibility of aorta, 1938, 124: 603
- skin temperature in, 1941, 131: 710
- sodium chloride intake in, 1951, 164: 73; 1951, 164: 369
- spinal cord destruction and, 1938, 122: 506; 1938, 124: 106

See page iii for guide to use of index

HYPERTENSION

- steroids and, in hypophysectomized rats, 1946, 147: 471
- subsequent to intracranial hypertension, 1943, 139: 347
- vascular reactivity, 1949, 156: 412
- veratramine, 1951, 167: 714
- water and electrolyte of tissues, 1950, 161: 278

HYPERTENSION, RENAL

- adrenals and, 1951, 167: 462
- adrenocorticotrophic hormone, 1944, 141: 394
- arterial muscle sensitivity, 1940, 129: 560
- choline deficiency, 1950, 162: 375
- diet, 1950, 160: 31
- dietary protein, 1950, 162: 368
- factors affecting, 1949, 156: 422
- hormonal role in, 1951, 166: 528
- kidney blood flow in, 1942, 135: 365
- kidney clearance, 1942, 135: 366
- kidney metabolism in, 1938, 122: 38
- measurement of pulse and alpha waves in, 1942, 136: 453
- Nembutal and yohimbine, 1944, 141: 707
- nervous system, 1950, 161: 435
- posterior hypophysectomy, 1944, 141: 389
- produced by renal ischemia, 1940, 131: 18
- pulmonary arterial pressure in, 1940, 128: 433
- removal of ischemic kidney, 1949, 158: 438
- renin, 1950, 162: 385
- renin substrate, 1951, 164: 630

HYPERTHERMIA: see FEVER**HYPERTHYROIDISM**

- anoxia, 1951, 167: 172
- EEG in, 1942, 137: 703
- basal metabolic rates in, 1943, 139: 140
- cardiac glycogen and, 1938, 124: 742; 1944, 142: 687
- egg production, 1947, 149: 383
- food intake and vitamin B in, 1941, 132: 529
- genital structure, function, 1947, 150: 95
- growth, 1945, 145: 18
- heart rate in, 1948, 153: 412
- iodine metabolism in, 1939, 127: 566
- liver function and, dietary yeast in, 1942, 136: 762
- pulse rate, temperature, 1943, 138: 370
- metabolism of iodine by thyroid in, 1940, 131: 139
- neuromuscular atrophy, regeneration, 1947, 151: 91
- requirements for pantothenic acid and vitamin B₆ in, 1942, 135: 475
- susceptibility to oxygen poisoning, 1945, 144: 270
- thiamin of tissues, 1938, 122: 486
- vitamin B complex, 1938, 124: 683
- vitamin E requirement, 1949, 159: 287
- yeast, 1945, 145: 16

HYPERTONIC SOLUTIONS

- cochlear potentials, 1939, 125: 695
- hypotension caused from injection, 1950, 160: 15; 1950, 160: 519
- infusion of, pituitrin and, 1945, 144: 311
- injection of, circulation, 1950, 160: 509
- metabolism of electrolytes and water, 1949, 159: 162

HYPERTONUS, POST-CONTRACTION

- acoustic stimuli, 1944, 141: 486

HYPERTROPHY

- birefringence and contractile power of muscle, 1940, 131: 156
- of heart, chemical changes in, 1943, 138: 529
- phosphocreatine of heart, 1943, 138: 652

HYPERVENTILATION

- CO₂ breathing, 1947, 149: 43
- cortical responses, 1943, 139: 336
- in hyperthermia, blood acid-base balance, 1938, 123: 550
- plasma phosphate, 1948, 154: 185

HYPERVITAMINOSIS A

- growth in dogs, 1947, 149: 323

HYPERVITAMINOSIS D

- growth in dogs, 1947, 149: 323

HYPERVOLEMIA: see BLOOD VOLUME, increased**HYPNOGRAPH**

- for measuring motility during sleep, 1939, 127: 480

HYPNOTOXIN THEORY

- of sleep, 1939, 125: 491

HYPOCAPNIA

- accommodation in motor nerves, 1942, 136: 642
- respiratory center, 1945, 144: 131

HYPOCHLOREMIA: see CHLORIDE (As TISSUE CONSTITUENT), of blood**HYPOGASTRIC NERVES**

- recovery of responsiveness in, 1938, 123: 313
- stimulation and motility of colon, 1942, 138: 89

HYPOGLOSSAL NERVES

- motor fibers, cholinesterase of, 1945, 144: 82

HYPOGLYCEMIA

- acetylcholine and cholinesterase activity of brain, 1941, 132: 588
- blood pressure response to intracranial pressure, 1939, 128: 189
- carbohydrate derivatives, 1938, 124: 295
- carbon dioxide and vasomotor center in, 1940, 130: 256
- cerebral activity during, 1939, 125: 578
- cerebral blood flow and metabolism during, 1941, 132: 640
- convulsions in, 1940, 130: 261
- adrenal cortex, 1942, 137: 655
- anoxia, 1940, 130: 265
- due to alloxan, 1950, 160: 107
- electroencephalogram and, 1939, 125: 551; 1942, 136: 4
- glucose and lactic acid exchanges during, 1939, 127: 685
- intestinal secretion, 1949, 159: 89
- produced by growth hormone, 1944, 141: 89
- release of autonomic humoral substances in, 1940, 128: 324
- resistance to production by insulin, 1939, 125: 228
- visual thresholds in, 1945, 145: 301
- volume of pancreatic juice, 1941, 134: 207
- zinc, iron, 1938, 121: 44

HYPOPHYSECTOMY

- ammonia excretion, 1951 167: 563

- arterial hypertension, 1938, 122: 355
 blood serum amylase, 1938, 122: 428
 blood sugar level, 1942, 137: 675
 calorogenic action of amino acids, 1938, 122: 533
 carbohydrate metabolism and, 1938, 121: 755; 1941, 132: 446; 1942, 136: 98
 cardiac output, 1947, 149: 412
 oxygen consumption, 1947, 151: 241
 cholesterol of adrenal following burns, 1945, 144: 665
 food and tissue composition after, 1944, 141: 145
 gastric secretion, 1947, 150: 376
 hypersensitivity to insulin, 1946, 146: 502
 hypothalamic obesity, 1943, 140: 91
 insulin, glycine, 1939, 125: 666
 hepatic glucose output following, 1939, 125: 664
 insulin sensitivity, 1944, 141: 569
 glucose tolerance, 1942, 136: 592
 liver and kidney metabolism, 1938, 122: 296
 liver arginase, 1943, 138: 441
 maternal behavior, 1942, 137: 299
 metabolism of liver and kidney, 1938, 122: 169
 neuromuscular function and, 1949, 156: 274; 1950, 161: 534
 parathyroid function, 1943, 139: 188
 radiation syndrome, 1951, 165: 44
 renal function and, 1938, 123: 566; 1939, 125: 645; 1943, 139: 545; 1949, 156: 67
 renal hypertension, 1944, 141: 394
 reproductive cycle, 1939, 126: 762
 resistance to cold, 1942, 136: 26
 response of adrenal cortex to cortin, 1938, 124: 369
 response to adrenaline, 1946, 146: 387
 to menopause urine injections, 1938, 124: 174
 sensitivity to adrenine, 1938, 121: 561
 serum albumin, 1943, 138: 258
 serum protein level, 1942, 136: 308
 steroids and hypertension, 1946, 147: 471
 thyroid in disturbed carbohydrate metabolism due to, 1939, 125: 220
 water intoxication in frog, 1942, 136: 45
 work-performance, 1938, 122: 302
- HYPOPROTEINEMIA:** *see* PROTEIN (AS TISSUE CONSTITUENT), of blood
- HYPOPROTHROMBINEMIA**
 due to loss of intestinal lymph, 1949, 158: 311
 hemostasis, 1947, 148: 282
 in peptone shock, 1945, 147: 275
 induced by salicylic acid, 1949, 159: 40
 induced in suckling rats, 1945, 143: 239
 nature of defect in, 1947, 151: 66
- HYPOTENSION**
 after hypertonic solutions, 1950, 160: 15
 after intravenous injections, 1947, 151: 516
 cardiac efficiency, 1948, 152: 545
 cardio-acceleration produced by acetylcholine, nitroglycerine, 1945, 144: 520
 drugs, 1949, 157: 352
 hemorrhagic, behavior of spleen in, 1943, 138: 205
 blood flow and vascular resistance in, 1946, 147: 685
 blood hypertensinogen in, 1949, 156: 454
 coronary flow in, 1947, 148: 730
 pectin solution, 1943, 140: 326
 reactions of aorta in, 1943, 138: 491
 renin and angiotonin in, 1944, 141: 132
 vasodepressor responses to morphine, 1949, 157: 259
 injection of hypertonic solutions, 1950, 160: 519
 pressor activity of carotid sinuses in, 1940, 130: 186
 pressor responses from blood of animals in, 1942, 136: 280
 produced by bradykinin, 1949, 156: 261
 TEA, 1949, 158: 405
- HYPOTHALAMUS**
 adrenaline release from stimulation of, 1942, 136: 376
 anesthesia and blood supply, 1940, 129: 650
 anoxia and excitability, 1942, 135: 642
 anterior, bladder responses to stimulation of, 1939, 125: 303
 lesions in and diabetes insipidus, 1950, 160: 321
 cardiovascular control by, 1941, 134: 359
 control of energy exchanges, 1945, 143: 2
 decussations of sympathetic fibers from, 1939, 125: 449
 frontal lobes and excitability of, 1938, 122: 530
 gastro-intestinal motility, 1940, 130: 81
 injury to, and nature of obesity, 1946, 147: 695
 lesions, absence of gastric changes due to, 1938, 122: 81
 activity and food intake, 1942, 136: 611
 activity and resulting obesity, 1946, 147: 708
 eating habit, 1946, 147: 735
 fat feeding and carbohydrate intake in, 1947, 151: 530
 O₂ consumption in obesity, 1946, 147: 717
 reproduction, 1940, 129: 39
 respiratory quotient in obesity from, 1946, 147: 727
 sexual behavior, 1941, 133: 551; 1942, 137: 746
 pituitary and water balance, 1941, 133: 582
 pituitary connections, excretion of antidiuretic substance by, 1939, 127: 544
 potentials, afferent impulses, 1946, 146: 631
 due to strychnine, 1946, 146: 633
 preoptic region in regulation of heart rate, 1941, 132: 5
 pressor hormones from, 1939, 127: 597
 respiration in frog, 1942, 136: 53
 section of neural connections with pituitary, 1949, 158: 45
 stimulation, colon, 1946, 146: 189
 pupil and nictitating membrane, 1946, 146: 380
 vago-insulin system, 1941, 133: 532
- HYPOTHALAMUS-SYMPATHETIC SYSTEM:** *see* SYMPATHETIC NERVOUS SYSTEM, central representation
- HYPOTHERMIA**
 after adrenalectomy, 1944, 141: 653
 apparatus used for rapid or gradual, of isolated muscle, 1950, 163: 15
 blood, 1947, 148: 610
 blood gases in, 1951, 166: 58

HYPOTHERMIA

- bromsulphalein removal during, 1949, 159: 365
- capillary endothelium, 1947, 149: 305
- cardiac catheters in, 1951, 167: 63
- cardiac oxygenation during, 1951, 164: 79
- cardiac physiology in, 1951, 167: 69
- cardiovascular response to, 1950, 161: 455
- contraction of smooth muscle, 1950, 163: 15
- cooling rates in, 1950, 163: 580
- drinking of ice water, 1942, 136: 107
- due to arsenic trioxide, 1945, 143: 637
- emotional in rabbits, 1950, 160: 285
- fluid volume in, 1951, 167: 485
- heat production, 1950, 161: 359; 1951, 166: 65
- high oxygen poisoning, 1949, 156: 177
- immersion, oxygen consumption and cooling rates in, 1949, 157: 436
- in infant mammals, 1951, 166: 75
- liver and blood glucose, 1947, 149: 555
- liver function during, 1949, 159: 365
- lymph flow, 1940, 130: 34
- magnesium of blood, 1950, 161: 399
- nerve conduction in hibernating and non-hibernating animals, 1948, 155: 179
- oxygen consumption and acclimatization, 1950, 161: 359
- CO₂, 1941, 134: 601
- cooling rates in immersion, 1949, 157: 436
- oxygen transport, utilization, 1950, 160: 125
- produced by immersion, 1948, 155: 378
- respiratory and metabolic effects of, 1941, 132: 685
- response in warm-blooded and cold-blooded vertebrates, 1951, 166: 92
- resulting from anoxia, 1950, 161: 312
- rewarming from, 1948, 152: 225; 1951, 167: 69
- tolerance of adult chickens to, 1946, 147: 531

HYPOTHYROIDISM

- anoxia, 1951, 167: 172
- basal metabolic rates in rats in, 1943, 139: 140
- iodine metabolism in, 1939, 127: 565; 1940, 131: 139
- neuromuscular atrophy, regeneration, 1947, 151: 91
- susceptibility to oxygen poisoning, 1945, 144: 270
- vitamin E requirement, 1949, 159: 287

HYPOTONIC SOLUTIONS

- cochlear potentials, 1939, 125: 695
- electrolyte distribution in normal and splenectomized dogs, 1950, 160: 300
- infusion of, pituitrin, 1945, 144: 311
- injection and water and electrolyte distribution, 1949, 159: 57

HYPOXANTHINE

- ultraviolet irradiation and, 1951, 167: 367

HYPOXEMIA: see ANOXEMIA**HYPOXIA: see ANOXIA****HYSTERESIS**

- of tubing or artery, wave form, 1945, 144: 529

ICHNIOWSKI, C. T.: *see* MARTIN, G. J.

ICSH: *see* GONADOTROPINS, pituitary

ICTERUS: *see* JAUNDICE

ICTERUS INDEX

- increased, from high fat and choline intake, 1945, 144: 445

ILEUM

- absorption, of chloride, 1941, 134: 37
- of histamine, 1951, 166: 462
- of water and salts from, 1940, 131: 402
- injury to mucosa by distilled water, 1940, 129: 173
- NaSCN and secretion, 1944, 141: 593
- sensitivity of mucosal and peritoneal surfaces of, 1946, 145: 677
- sodium turnover in, 1951, 167: 336
- use for histamine assay, 1946, 145: 485

ILIFF, ALBERTA: *see* LEWIS, R. C.

IMMERSION

- as means of producing hypothermia, 1950, 161: 455
- of body, gastric acidity, 1940, 131: 195
- vital capacity of body, 1944, 141: 51

IMPEDANCE, TISSUE

- during electroconvulsive shock, 1949, 156: 317
- of ventricular muscle, during contraction, 1943, 139: 514

IMPLANTATION

- of ova, frequency of insemination, 1940, 130: 471

INACTIVITY

- leg anomaly in chickens due to, 1944, 141: 275

INANITION

- ability to do muscular work, 1945, 143: 151
- adrenal weight in, 1941, 132: 370
- alkaline phosphatase, 1947, 149: 419
- appetite and growth during recovery, 1951, 166: 566
- basal blood pressure, 1951, 166: 296
- blood picture, 1947, 151: 526
- BMR, 1948, 154: 188
- cholinesterase of blood and tissue, 1948, 154: 497
- contents of alimentary tract, 1945, 143: 563
- energy metabolism of eviscerated rat, 1944, 142: 244
- environmental temperature, adrenal glands, 1950, 163: 92
- glucose metabolism, 1947, 148: 600
- heart size, 1947, 150: 155
- hepatic acetone body production, 1940, 131: 10
- hunger and pancreatic secretion, 1940, 131: 60
- insulin, anterior pituitary and liver fat, 1946, 147: 746
- insulin response in chickens, 1943, 139: 564
- intestinal absorption of carbohydrate, 1940, 131: 36
- iodide metabolism in, 1951, 167: 576
- liver retention of lactic acid, 1941, 132: 679
- maintenance of liver glycogen, 1942, 136: 746
- metabolism during, previous diet, 1949, 158: 57
- muscular capacity, 1940, 131: 465
- partial, oxygen consumption, 1951, 167: 617
- phosphorus turnover in muscle, 1944, 142: 625
- pigeon crop-sac response to prolactin, 1939, 127: 422
- pituitrin inhibition of water loss in rats, 1940, 130: 405
- reaction and neutralizing ability of duodenal content, 1942, 136: 370
- rectal temperature, 1939, 125: 526
- renal gluconeogenesis after evisceration and, 1944, 142: 241

- resistance to G forces, 1949, 156: 137
 resultant muscle atrophy, 1943, 140: 117
 serum protein level, 1942, 136: 308
 survival in anoxia, 1944, 142: 310
 temperature regulation, 1938, 122: 646
 tolerance to high carbohydrate feeding, 1946, 147: 228
 urinary N.P.N. of adrenalectomized rats, 1946, 147: 222
 urine and blood ketones, 1939, 125: 755
- INCOORDINATION**
 due to increased cerebrospinal pressure, 1940, 130: 685
- INCUBATION**
 in vitro, potassium and sodium in tissue slices, 1950, 163: 598
- INDIAN BLACKBUCK**
 blood sugar level of, 1950, 162: 438
- INDICATOR YELLOW**
 in the eye, 1943, 140: 40
- INDIGO**
 role in cellular respiration, 1938, 122: 402
- INDOL-3-ACETIC ACID**
 muscle sensitivity to acetylcholine and potassium, 1946, 145: 611
- INDOLE**
 action of, 1942, 136: 648
 muscle sensitivity to acetylcholine, potassium, 1946, 145: 611
- INDOVINA, I.** Distribution of intravenously injected iron, 1951, 165: 348
 — Utilization of intravenously injected iron, 1951, 165: 352
- INFANTS**
 blood pressure studies on, 1938, 122: 472
 protein sparing action of carbohydrate in, 1947, 150: 389
- INFERIOR COLLICULI:** *see* **CORPORA QUADRIGEMINA**
- INFERIOR VENA CAVA**
 flow, hemorrhage, 1947, 148: 745
 flow of intravascular origin, 1947, 148: 740
 pressure in after hemorrhagic shock, 1946, 146: 199
- INFLAMMATION**
 depressor response to in dogs, 1950, 163: 430
 diabetes and exudate constituents, 1941, 134: 526
 endocrine control of, 1951, 166: 340
 exudate constituents, 1941, 134: 526
 leukopenia-producing factor, 1951, 165: 554
 mechanism of enhanced diabetes with, 1941, 134: 517
 mechanism of in diabetic, 1943, 138: 396
- INFLATION**
 apparatus, for excised lung, 1951, 167: 112
 of lung, and pulmonary vascular resistance, 1951, 167: 756
- INFUSION**
 comparison of immediate and delayed, 1947, 150: 648
 continuous, of glucose and protein, 1949, 159: 415
 distribution, extracellular fluid, 1940, 130: 421
 effects following hemorrhage, 1945, 143: 182
 hematocrit, 1947, 150: 646
 hemoglobin solution, in burn shock, 1947, 150: 432
 hypo, and hypertonic saline, pituitrin, 1945, 144: 311
 saline, and isotonic serum after trauma, 1942, 137: 355
- INGELFINGER, F. J. and MOSS, R. E.** Activity of descending duodenum during nausea, 1942, 136: 561
 — *See* **FORSTER, F. M.**
- INGERSOLL, E.H. and JONES, LOUISE.** Colon response to stimulation of forebrain areas, 1946, 146: 187
- INGLE, D. J.** Adrenal cortex after large doses of cortin, 1938, 124: 369
 — Adrenal cortical extracts in traumatic shock, 1943, 139: 460
 — Adrenal extract and resistance to peptone shock, 1944, 142: 191
 — Cortico-adrenal hypertrophy and work, 1938, 124: 627
 — Cortin and work-performance after hypophysectomy, 1938, 122: 302
 — Diabetogenic effect of diethylstilbestrol, 1943, 138: 577
 — Salt diet and work performance after adrenalectomy, 1940, 129: 278
 — Work performance of adrenalectomized rats, 1941, 133: 676
 — and **KENDALL, E. C.** Dietary sodium and potassium and adrenal weights, 1938, 122: 585
 — and **KUIZENGA, M. H.** Adrenal cortical hormone in burn shock, 1945, 145: 203
 — and **NEZAMIS, J. E.** Adrenal cortex and diabetes, 1950, 162: 1
 — and **NEZAMIS, J. E.** Adrenalectomy and tolerance of eviscerated rat for glucose, 1948, 152: 598
 — and **NEZAMIS, J. E.** Adrenals and work performance, 1949, 156: 365
 — and **NEZAMIS, J. E.** Effect of antibiotics upon eviscerate rat, 1951, 166: 349
 — and **NEZAMIS, J. E.** Epinephrine and glucose tolerance, 1949, 156: 361
 — and **NEZAMIS, J. E.** Muscle work and glucose tolerance, 1948, 155: 15
 — and **NEZAMIS, J. E.** Nephrectomy and CHO tolerance, 1948, 153: 393
 — and **NEZAMIS, J. E.** Pituitary and glucose tolerance, 1949, 157: 59
 — and **NEZAMIS, J. E.** Temperature and eviscerate survival, 1950, 160: 122
 — and **NEZAMIS, J. E.** Temperature and glucose tolerance, 1949, 159: 95
 — and **OBERLE, ELIZABETH A.** Urinary non-protein nitrogen after adrenalectomy, 1946, 147: 222
 — and **PRESTRUD, MILDRED C.** Adrenals and CHO metabolism, 1948, 152: 603
 — and **THORN, G. W.** Effects of two crystalline adrenal cortical hormones, 1941, 132: 670
 — *See* **GRATTAN, J. F.**
 — *See* **HARRIS, R. E.**
 — *See* **KUIZENGA, M. H.**
 —, **HIGGINS, G. M. and NILSON, H. W.** Homeoplastic transplantation of adrenals, 1938, 121: 650
 —, **MOON, H. D. and EVANS, H. M.** Work performance of hypophysectomized rats, 1938, 123: 620

- INGLE, D. J. NEZAMIS, J. E. and JEFFRIES, J. W. Adrenal cortex and work, 1949, 157: 99
- , NEZAMIS, J. E. and MORLEY, E. H. Cortisone and work output, 1951, 166: 504
- , NEZAMIS, J. E. and MORLEY, E. H. Glucose and work output of rats, 1951, 165: 473
- , NEZAMIS, J. E. and MORLEY, E. H. Glucose tolerance, 1950, 160: 506
- , NEZAMIS, J. E. and MORLEY, E. H. Work output and blood glucose in diabetic rats, 1951, 165: 469
- , NEZAMIS, J. E. and PRESTRUD, MILDRED C. Insulin and glucose tolerance, 1947, 149: 489
- , NEZAMIS, J. E. and PRESTRUD, MILDRED C. Vitamin K and eviscerate rats, 1950, 161: 199
- , PRESTRUD, MILDRED C. and LI, C. H. Administration of ACTH to normal rats, 1951, 166: 165
- , PRESTRUD, MILDRED C. and NEZAMIS, J. E. Administration of cortisone to normal rats, 1951, 166: 171
- , PRESTRUD, MILDRED C. and NEZAMIS, J. E. Blood changes after evisceration, 1950, 160: 247
- , PRESTRUD, MILDRED C. and NEZAMIS, J. E. Insulin and blood amino acids, 1947, 150: 682
- , PRESTRUD, MILDRED C., NEZAMIS, J. E. and KUIZENGA, M. H. Adrenal cortex extract and blood glucose level, 1947, 150: 423
- , SHEPPARD, RUTH and WINTER, HELEN A. Intravenous NaCl and survival after evisceration, 1945, 144: 255
- , WARD, ELIZABETH O. and KUIZENGA, M. H. Adrenal glands and urinary non-protein nitrogen, 1947, 149: 510
- INGRAHAM, R. C. and VISSCHER, M. B. Intestinal absorption with osmotic work, 1938, 121: 771
- and WIGGERS, H. C. Alkaline agents and fluid priming in hemorrhagic shock, 1945, 144: 505
- , GOLDBERG, H., ROEMHILD, F. and WIGGERS, H. C. Sodium pentobarbital and hemorrhagic shock, 1950, 162: 243
- , *See* WIGGERS, H. C.
- INGRAHAM, W. R. and WINTER, C. A. Adrenalectomy, water exchange and diabetes insipidus, 1938, 122: 143
- , LADD, LAURA and BENBOW, J. T. Excretion of antidiuretic substance, 1939, 127: 544
- , *See* WINTER, C. A.
- INHERITANCE: *see* HEREDITY
- INHIBITION
- central, mechanisms in, 1946, 146: 443
- conditioned reflexes and, after cerebral lesions, 1946, 147: 454
- electrotonic nature of, 1947, 148: 515
- in the nervous integration of respiration, 1945, 144: 154
- of intestinal motility by adrenaline, 1939, 126: 237
- of peristalsis, mechanism, 1947, 148: 354
- INHIBITORY REFLEX
- intestino-intestinal, characteristics of, 1945, 143: 411
- INJURY: *see* TRAUMA
- INJURY POTENTIALS: *see* HEART INJURY
- INMAN, V. T.: *see* RALSTON, H. J.
- INNERFIELD, I., ANGRIST, A., BENJAMIN, J. W. and KANEGIS, L. A. Aureomycin and blood coagulation, 1951, 166: 578
- INNERVATION
- of interosseous muscles, 1944, 142: 391
- of kidney, tubular function, 1943, 139: 103
- re-, of denervated muscle fibers by adjacent motor units, 1945, 144: 477
- of parietic muscles, 1947, 150: 670
- reciprocal, abolition by asphyxia, 1939, 128: 16
- in small intestine, 1940, 130: 642
- INOSINIC ACID
- acetylcholine sensitivity of muscle, 1946, 145: 420
- INOSITOL
- interrelationship of, p-aminobenzoic acid and, 1942, 136: 124
- muscle sensitivity to acetylcholine, potassium, 1946, 145: 610
- INPUT LOAD
- cardiac energetics, 1941, 134: 636
- INSOMNIA
- benzedrine and barbiturates and fatigue due to, 1947, 150: 253
- EEG, 1947, 149: 185
- experimental, cardiovascular effects of, 1942, 138: 65
- INSPIRATION
- afferent impulses to respiratory centers, 1948, 155: 148
- changes in respiratory centers during, 1948, 155: 148
- deep, skin cooling due to, 1948, 152: 122
- gradation of intensity of contractions, 1941, 131: 659
- pulmonary arterial pressure, 1939, 125: 130
- pulmonary venous pressure, 1939, 125: 130
- restriction of, breathing pattern, 1949, 157: 275
- vasoconstriction from deep, 1939, 125: 310
- ventricular filling, 1944, 142: 52
- INSPIRATORY CENTERS: *see* RESPIRATORY CENTERS
- INSULIN
- absorption from the alimentary tract, 1939, 128: 82; 1941, 132: 281
- various substances, 1941, 132: 281
- action, acidosis, 1951, 166: 191
- in depancreatized herbivora, 1947, 150: 46
- activity after exposure to high pressure, 1940, 131: 382
- alkylresorcinols and intestinal absorption of, 1939, 128: 92
- amino acid nitrogen in blood, 1940, 130: 171
- anoxia, 1940, 129: 612
- anterior pituitary, 1938, 124: 774
- anti-, growth hormones, 1950, 163: 310
- appetite of animals on high protein diet, 1941, 135: 199
- assay in blood, 1940, 131: 286; 1947, 149: 351
- blood amino acids and, 1940, 128: 775; 1947, 150: 683
- blood serum composition, 1938, 123: 608
- blood sugar and, 1939, 125: 193; 1943, 139: 564
- blood sugar changes due to alloxan, 1950, 160: 228
- carbohydrate levels under different conditions, 1941, 131: 792
- carbohydrate metabolism, 1940, 131: 536
- during work, 1940, 130: 603

- cardiac and liver glycogen, 1941, 134: 799
 carotid sinus ligation, 1944, 142: 643
 cellular, permeability to sorbitol and, 1951, 166: 421
 cerebral blood flow, 1943, 138: 429
 chymotrypsin, 1945, 143: 279
 convulsions from, after removal of stellate ganglia, 1938, 124: 202
 dextrose appetite, 1942, 135: 782
 distribution of glucose, 1951, 166: 159
 duration of action, 1940, 129: 19
 effects, studied by means of cross-circulation experiments, 1949, 157: 197
 eosinophiles, blood sugar, 1950, 163: 97
 exchange of phosphorus between blood and muscle, 1941, 134: 42
 food intake, 1947, 149: 100
 gluconeogenesis by kidney, 1949, 156: 345
 glucose Tm, 1941, 133: 754
 glucose tolerance, 1947, 149: 490
 growth of islets of Langerhans, 1951, 167: 176
 hepatic glucose output, 1939, 125: 658
 blood sugar level, 1947, 148: 314
 hyperglycemic effect of, 1948, 153: 197; 1949, 159: 98
 hyperglycemic factor, found in insulin preparations, 1949, 159: 98
 in vitro liver metabolism, 1945, 144: 53
 inactivation by liver, 1949, 158: 332
 induction of pseudopregnancy with, 1951, 167: 589
 intestinal glucose absorption, 1941, 135: 190
 liver fat from anterior pituitary extracts, 1946, 147: 742
 liver glycogen, 1941, 131: 783
 locus of hypersensitivity to, 1946, 146: 504
 lymphatic tissue, 1948, 152: 267
 measurement of action, 1939, 127: 581
 mode of action of, 1940, 129: 782
 nerve activity, 1940, 131: 509
 nitrogen balance, 1951, 166: 354
 of blood, assay of, 1947, 149: 351
 of pancreas, hormones, 1942, 135: 406
 parabiotic diabetic rats, 1947, 148: 191
 peripheral blood flow, 1939, 128: 127
 permeability of cells, 1950, 163: 70
 pH of cortex, blood, 1939, 125: 681
 phosphate changes in blood, muscle and liver, 1944, 140: 598
 phosphorus metabolism in muscle, 1945, 143: 159
 protamine zinc, prolonged action of acidified solution, 1940, 130: 521
 protein metabolism and, 1938, 124: 569; 1939, 126: 156
 resistance, after pancreatectomy, 1942, 136: 597
 in diphtheria, 1938, 122: 627
 resistance to anoxia, 1945, 145: 196
 hypoglycemia produced by, 1939, 125: 230
 low oxygen tension, 1946, 146: 30
 response of muscle to acetylcholine, 1944, 141: 112
 reversible inactivation of, by sodium lauryl sulfate, 1945, 145: 126
 secretion of ammonia by small intestine, 1940, 129: 151
 sensitivity to, adrenalectomy and, 1949, 159: 111
 anoxia, 1938, 121: 358
 hypophysectomy, 1942, 136: 592
 hypophyseal eosinophil cell, 1944, 141: 566
 thyroxine, 1939, 125: 223
 serum potassium, 1940, 130: 566
 shock, production of brain damage during, 1941, 131: 554
 survival of isolated respiratory center, 1946, 146: 243
 survival time of decapitated head, 1944, 142: 154
 survival to explosive decompression, 1950, 163: 401
 sympathectomized dog, 1939, 125: 542
 tolerance, anoxia and, 1948, 152: 252
 uric acid excretion, 1938, 123: 625
 zinc, 1939, 125: 24
 INSULIN HYPOGLYCEMIA: *see* HYPOGLYCEMIA
 INSULL, W., JR., TILLOTSON, I. G. and HAYMAN, J. M., JR. Distribution of blood in rabbit's kidney, 1950, 163: 676
 INTELLECTIVE FUNCTION TESTS
 restricted B vitamins, 1945, 144: 13
 INTERAURICULAR SEPTAL DEFECT
 blood pressure tracings from left auricle and pulmonary vein in, 1947, 150: 267
 INTERCRANIAL PRESSURE
 anoxia and hypoglycemia, 1939, 128: 187
 blood pressure, 1939, 128: 187
 diuresis, 1939, 126: 318
 increased, blood pressure, 1945, 144: 587
 pulmonary effects of, 1949, 158: 96
 pulmonary lesions related to, 1949, 157: 130
 INTERFACIAL TENSION
 between various substances and water, 1946, 145: 612
 INTERMEDIN
 maternal behavior, 1942, 137: 299
 INTERNAL CAPSULE
 cholinesterase content, 1948, 155: 61
 INTEROSSEOUS MUSCLES
 innervation of, 1942, 137: 247; 1944, 142: 391
 INTERSTITIAL CELL STIMULATING HORMONE: *see* GONADOTROPINS, pituitary
 INTERSTITIAL FLUID: *see* EXTRACELLULAR FLUID, interstitial
 INTESTINAL JUICE
 bile, 1940, 131: 256
 food, enterocrinin, 1939, 128: 72
 secretion during hypercalcemia, 1949, 158: 129
 physical factors, 1940, 130: 415
 INTESTINAL MOTILITY
 anoxia, cocaine, 1944, 142: 615
 autonomic nervous system, 1944, 141: 462
 bile, 1941, 134: 32
 bile salts, 1948, 153: 386
 epinephrine-like drugs, 1939, 126: 241
 hemorrhage, 1944, 142: 261
 in vivo recording during x-irradiation, 1951, 165: 376
 x-irradiation, 1951, 165: 376
 INTESTINAL MUSCLES
 inhibition by thiamin of response to acetylcholine, 1946, 147: 234

INTESTINE, SMALL

- action potentials from, 1938, 124: 505; 1939, 127: 303; 1943, 139: 433
- amino acids in and gastric inhibition, 1942, 135: 611
- contents during fasting, 1945, 143: 563
- double action of adrenaline on, 1949, 159: 457
- electric potentials of, 1943, 139: 433
- enterocinin excitation of, 1938, 121: 481
- heparin content, 1939, 125: 104
- histaminase content, 1946, 146: 58
- histamine content, 1938, 124: 416; 1941, 131: 591
- motility of, 1949, 158: 201
- pacemaker activity prior to impulse discharge, 1942, 136: 547
- propulsive motility and length, 1951, 167: 399
- water, fat, and electrolyte content, 1950, 161: 279
- zinc content of, 1938, 124: 753

INTESTINES

- absorption: *see* ABSORPTION, intestinal; . . . , of specific substance *see* name of substance
- acetylcholine formation by, 1939, 127: 382
- acid in and pancreatic stimulation, 1940, 131: 349
- adrenaline, sympathin, 1938, 123: 424
- adrenotropic receptors in, 1948, 153: 590
- anoxia and peristalsis, 1943, 140: 121
- antiperistalsis and peristalsis in, 1947, 148: 350
- bile and propulsive motility of, 1939, 126: 85
- blood flow, 1942, 135: 651
 - distention, 1940, 131: 368
- carbon dioxide, 1949, 158: 119
- chemoflexor vascular reaction in, 1945, 143: 364
- chloride content of, 1938, 122: 228
- circular and longitudinal muscle layers in, 1947, 148: 354
- composition of flatus, 1948, 153: 475
- contribution to blood level of pyruvate, lactate, and glucose, 1947, 148: 324
- deflation hyperemia in, 1941, 134: 147
- denervated, acetylcholine, 1940, 128: 470
- distended, utilization of oxygen by, 1942, 135: 650
- distention in, 1945, 143: 407
- drugs and serosa and mucosa of, 1947, 148: 715
- experimental uremia, 1951, 166: 137
- glucose and lactic acid exchange, 1939, 127: 686
- histaminase of, 1940, 129: 222
- inhibition due to adrenaline, 1939, 126: 237
 - during distention, 1938, 124: 470
- ion transfer by, 1950, 163: 1
- irradiation of, 1951, 164: 555
- lesions due to potassium deficiency, 1945, 145: 292
- metabolism of methanol in, 1950, 163: 617
- movement of water and ions from lumen to blood, 1944, 142: 550
- mucosa, acetylcholine formation by, 1939, 127: 382
 - physical forces determining flow of fluid through, 1940, 130: 410
- myenteric reflex in, 1949, 157: 329
- obstruction, distention and mode of response, 1945, 144: 723
 - urea excretion, 1947, 149: 496
- perfusion in uremia, 1951, 166: 137
 - system for, 1951, 167: 414

- permeability of wall to sodium ion, 1944, 141: 488
- pH of in rat, 1939, 128: 176
- pressure in, reflex regulation of, 1942, 135: 621
- reciprocal innervation in, 1940, 130: 642
- reflex peristalsis in, 1949, 157: 338
- repayment of oxygen debt in, 1939, 127: 285
- response to food and enterocinin, 1939, 128: 70
 - to ingestion of glucose, 1945, 144: 609
- secretion, insulin hypoglycemia, 1949, 159: 89
 - of alkaline phosphatase by, 1943, 138: 237
 - of ammonia, 1940, 129: 147
- segment behavior without plexus, 1951, 164: 284
- strangulation, course of hemorrhagic shock, 1945, 144: 601
 - synthesis of niacin and folic acid in, 1947, 148: 94
- villi, movements of, 1945, 143: 326

INTOCOSTRIN: *see* CURARE

INTRACELLULAR FLUID

- hypertonic plasma, 1944, 140: 595
- increase of, uptake of radioactive krypton, 1945, 144: 165
- induced variations in, 1944, 142: 439
- injected glucose, 1944, 140: 592
- injected saline, 1944, 140: 591
- injection of hypertonic glucose, 1944, 140: 593
- normal plasma, 1944, 140: 594

INTRAMUSCULAR PRESSURE

- changes in shock, 1945, 143: 89
- drugs, 1945, 143: 90
- during life and after death, 1943, 139: 161
- in fainting and non-fainting subjects, 1939, 128: 262
- measurements, comparison of, 1947, 150: 488
- plasma, 1944, 141: 104
- variations in, 1939, 126: 247

INTRAMUSCULAR TISSUE: *see* TISSUE, intramuscular

INTRATHORACIC PRESSURE

- atrial inflow, 1950, 162: 259
- atrial pressures, 1950, 160: 556
- cardiac filling pressure, 1947, 148: 435
- cardiac output and venous pressure, 1944, 142: 594
- cardiovascular response to explosive decompression, 1946, 147: 298
- cough, strain, 1944, 141: 45
- heart with interatrial septal defects, 1950, 162: 507
- hemorrhage, infusion, 1942, 136: 415
- pulmonary arterial pressure, 1939, 125: 130
- pulmonary venous pressure, 1939, 125: 130
- recording of, 1947, 148: 435; 1947, 151: 4
- regional, effective venous pressure, 1947, 151: 1
- response to changes in intra-abdominal pressure, 1947, 149: 296
- venous pressure, 1943, 139: 208
- ventricular filling, 1944, 142: 52

INTRATRACHEAL INSUFFLATION

- lymph flow, 1942, 136: 212

INULIN

- clearance, 1947, 148: 389; 1947, 150: 340; 1948, 155: 282
 - adrenal insufficiency, 1939, 125: 641
 - urine volume, 1946, 145: 641
 - vitamin A, 1939, 125: 792
- estimation of renal function, 1942, 137: 564

- excretion of, 1938, 122: 132; 1940, 129: 252
 measurement of extracellular fluid, 1949, 157: 387
 plasma-interstitial movement of, 1950, 160: 532
 suitability for measuring renal blood or plasma flow, 1940, 130: 455
 tubular secretion of, 1938, 123: 281
- INVERTASE**
 hexyl resorcinol, ammonium thiocyanate, 1942, 135: 335
 in ileal secretion, 1939, 128: 75
 in jejunal secretion, 1939, 128: 74
- IODINE**
 excretion in saliva, 1943, 139: 212
 metabolism, 1939, 127: 557
 in stress, 1951, 167: 576
 of blood, transport by erythrocytes, 1951, 164: 783
 selective absorption in obstructed gall bladder, 1940, 129: 707
 thyroid activity, 1941, 134: 623
 with vitamin A, thyroid gland, 1948, 152: 263
- IODINE (RADIOACTIVE)**
 absorption from intestinal tract, 1938, 124: 667
 distribution and time factor of injection, 1941, 132: 348
 in normal rabbits, 1941, 132: 346
 fixation in thyroid, 1941, 134: 551
 in parrot fish thyroid, 1948, 153: 222
 in thyroid physiology, 1940, 128: 565
 measure of albumin exchange between plasma and lymph, 1951, 165: 15
 metabolism of, 1939, 127: 557
 in thyroid gland, 1940, 131: 135; 1944, 140: 671
 permeability of blood-cerebrospinal barrier, 1943, 140: 58
 of frog skin to, 1950, 162: 194
 thiouracil and uptake by thyroid, 1950, 162: 590
 transport by erythrocytes, 1951, 164: 783
 uptake by thyroid gland, 1951, 164: 35
- IDOACETAMIDE**
 blocking of epinephrine cardioacceleration, 1950, 163: 492
 CO oxidation in muscle, 1940, 129: 206
 failure to inhibit cytochrome oxidase, 1941, 131: 586
 inhibition of glycolysis, 1938, 122: 379
 respiratory quotient, excitability, 1938, 122: 390
 uterine respiration, 1940, 128: 658
- IDOACETIC ACID**
 anaerobic contraction of muscle in presence of, 1939, 126: 391
 electrolytic changes in stimulated muscle, 1940, 128: 446
 inhibition of glycolysis, 1938, 122: 379
 P³² uptake, 1951, 164: 213
 K salt, blocking of epinephrine cardioacceleration, 1950, 163: 492
 lactic acid and movement of potassium, 1940, 131: 504
 latency changes in muscle due to, 1950, 163: 247
 muscular atrophy, 1949, 159: 7
 PAH accumulation in kidney slices, 1950, 161: 189
 renal electrolyte metabolism, 1951, 167: 203
 respiratory quotient and excitability, 1938, 122: 390
 survival time of decapitated head, 1944, 142: 154
 survival to explosive decompression, 1950, 163: 401
- ION EXCHANGE**
 by small intestine, 1950, 163: 1
 mechanism of urine acidification, 1945, 144: 240
 phosphorus in bone and muscle, 1945, 143: 683
- ION EXCHANGE RESINS**
 cation, mineral metabolism, 1951, 164: 695
 mineral metabolism, 1950, 160: 264
- IOPAX**
 renal clearance of, 1938, 123: 720
- IRBY, VIRGINIA: see ALBANESE, A. A.**
- IRIS**
 denervated, adrenaline, 1942, 135: 535
 fifth stage of transmission in, 1939, 127: 350
 muscle, adrenaline, acetylcholine, 1941, 133: 106
- IRISH, U. D. and JAKES, L. B.** Effect of dicumarol on plasma fibrinogen, 1945, 143: 101
- IRON**
 absorption, bile, 1942, 135: 261
 antacids and retention of, 1942, 137: 706
 capillary permeability of, 1948, 153: 503
 deficiency, anemia in rabbits, 1944, 142: 180
 from hemoglobin, as stimulus for production of ferritin, 1950, 160: 1
 hemoglobin level, 1946, 145: 503
 insulin hypoglycemia, 1938, 121: 44
 intake at army training centers, 1945, 144: 590
 maternal plasma as source of, 1950, 161: 202
 of serum, x-irradiation, 1951, 166: 380
 primary potential of, 1949, 159: 86
 relative absorption and utilization of ferric and ferrous, 1945, 143: 195
 relative effect of ferric and ferrous ions on synovial membrane, 1949, 158: 64
 storage, x-irradiation, 1951, 166: 384
 thiols and potentials produced by, 1949, 159: 85
 utilization of intravenously injected, 1951, 165: 352
- IRON (RADIOACTIVE)**
 colloidal, distribution of, 1951, 165: 348
 utilization of, 1951, 165: 352
 hemoglobin formation from destroyed red cells, 1942, 135: 596
 placental permeability, 1950, 161: 202
 relative utilization of ferric and ferrous, 1945, 143: 195
 studies of red cells with, 1943, 138: 415
 tagging red cells for cardiac output determination, 1946, 147: 493
 total blood volume, 1942, 135: 601
 transmission to human fetus, 1942, 137: 164
 use in evaluating jugular hematocrit, 1942, 316 136:
- IRRITABILITY**
 of mammalian heart muscle, 1951, 164: 234
- IRVIN, J. L., JOHNSTON, C. G. and SHARP, E. A.** Enterohepatic circulation of foreign bile acids, 1946, 146: 293
- , KOPALA, J. and JOHNSTON, C. G. Absorption of carotene from intestinal loops, 1941, 132: 202
- IRVING, L.** Blood flow through brain during arrest of breathing, 1938, 122: 207

- IRVING, L. Insensitivity of diving animals to CO₂, 1938, 124: 729
- , SCHOLANDER, P. F. and GRINNELL, S. W. Arterial blood pressure of seal during diving, 1942, 135: 557
- IRWIN, L. and RALLI, ELAINE P. Pantothenic acid and CHO metabolism, 1948, 153: 606
- IRWIN, MARGARET H., WEBER, JANET, STEENBOCK, H. and GODFREY, T. M. Fat absorption: hydro-genation, oxidation, 1938, 124: 800
- See WEBER, JANET
- ISCHEMIA
- blood flow, 1940, 130: 108
- cerebral, arrest of circulation, recovery of function, 1941, 132: 737
- coma due to, 1941, 132: 737
- EEG, 1941, 132: 234
- hypertension, 1948, 154: 45
- nervous cardiac control during, 1940, 129: 585
- pulse rate, 1948, 154: 49
- rate of denervated heart, 1939, 128: 252
- respiration, 1948, 154: 49
- vagal cardioaccelerator mechanism, 1939, 128: 250
- coronary, blood flow, 1942, 135: 279
- circulation, 1940, 130: 126
- local, metabolic effect during exercise, 1942, 138: 21
- muscle electrolytes following, 1951, 167: 289
- myocardial, and coronary blood flow, 1939, 126: 284
- oxygen tension and pH of renal cortex, 1950, 163: 181
- pain due to, 1939, 127: 315
- pH of muscle, 1939, 125: 736
- phosphate turnover in muscle, 1945, 144: 437
- potassium in heart, 1938, 123: 443
- produced by intra-arterial injection of glass micro-spheres, 1951, 167: 305
- renal, clearance and, 1945, 144: 395; 1946, 145: 379
- elaboration of pressor substance, 1941, 131: 799
- humoral substance from, 1951, 164: 624
- pressor responses following, 1940, 130: 784
- pressor substance produced by, 1940, 131: 18
- production of uremia by, 1948, 152: 517
- pulmonary pressure, 1940, 128: 437
- renal hemodynamics, 1951, 167: 523
- swelling following, 1950, 162: 226
- work load, 1941, 132: 396
- ISHIHARA TEST
- vitamin A intake, 1944, 140: 580
- ISLETS OF LANGERHANS
- growth, insulin, 1951, 167: 176
- volume measurement of, 1948, 152: 36
- ISO-AGGLUTINATION
- in normal and ill dogs, 1948, 154: 525
- ISOANDROSTERONE: *see* ANDROSTERONES
- ISOASCORBIC ACID
- cobalt polycythemia, 1949, 158: 317
- clotting time, 1945, 144: 453
- ISOCHRONISM
- in striated muscle, 1940, 129: 34
- ISOGRAVIMETRIC STATE
- method for obtaining measurements in, 1948, 152: 477
- ISOHEMAGGLUTINATION
- natural in dogs, 1940, 131: 203
- ISOLEUCINE
- renal clearance of, 1946, 146: 333
- renal reabsorption of, 1946, 145: 495
- ISOMANNIDE
- injection of hypertonic, drinking, 1950, 162: 333
- ISOMETRIC TWITCH RESPONSE
- in regenerating muscle and nerve, 1950, 161: 143
- ISOPROPYL ARTERENOL: *see* NOR-EPINEPHRINE, N-iso-propyl
- ISORRHEIC CONCENTRATIONS
- minimal and limiting, for various electrolytes, 1947, 148: 54
- ISORRHEIC STATE
- definition of, 1943, 138: 192
- ISOXANTHOPTERIN-6-CARBOXYLIC ACID: *see* XANTHOP-TERIN, iso-, -6-carboxylic acid
- IVY, A. C.: *see* ANNENEGERS, J. H.
- *See* ATKINSON, A. J.
- *See* BERMAN, A. L.
- *See* BERRY, I. M.
- *See* BLICKENSTAFF, D.
- *See* BUCHER, GLADYS R.
- *See* BUSSABARGER, R. A.
- *See* BUTLER, D. B.
- *See* CANEPA, J. F.
- *See* CLARKE, B. G.
- *See* DENTON, R. W.
- *See* DOUBILET, H.
- *See* FOGELMAN, M. J.
- *See* FOLTZ, E. E.
- *See* FREEMAN, S.
- *See* GREENGARD, H.
- *See* GRODINS, F. S.
- *See* GROSSMAN, M. I.
- *See* HANSON, M. E.
- *See* HARRIS, S. C.
- *See* HARTIALA, K.
- *See* HWANG, K.
- *See* KOCOUR, E. J.
- *See* KOSMAN, A. J.
- *See* LOEW, E. R.
- *See* MORRIS, C. R.
- *See* NEWMAN, E. A.
- *See* OSBORNE, S. L.
- *See* ROBACK, R. A.
- *See* ROTH, J. A.
- *See* SANGSTER, W.
- *See* SCHMIDT, C. R.
- *See* SCHNEDORF, J. G.
- *See* SCHWERMA, H.
- *See* SMITH, J. J.
- *See* TANTURI, C. A.
- *See* WANG, C. C.
- *See* WARKENTIN, J.
- *See* WELLS, J. A.
- IVY, H. B. and CRANDALL, L. A., JR. Liver and lactic acid, 1941, 132: 679
- *See* CRANDALL, L. A., JR.
- IVY, J. H., SVEC, MURIEL, H. and FREEMAN, S. Amino acids and diabetes, 1951, 167: 182

- JACKENTHAL, ROSLYN: *see* BERGER, E. Y.
- JACKSON, BLANCHE and WALD, G. Frog ventricle under thiamine and cocarboxylase, 1942, 135: 464
- JACKSON, M. A.: *see* WHEELER, B.
- JACKSON, SHIRLEY: *see* BOYD, E. M.
- JACOB, S. W.: *see* FRANK, H. A.
— *See* PERSKY, L.
- JACOBS, J.: *see* GARDNER, E.
- JACOBSON, A., SALHANICK, H. A. and ZARROW, M. X. Inhibition of pseudopregnancy, 1950, 161: 522
- JACOBSON, E. and KRAFT, F. L. Muscle contraction potentials during reading, 1942, 137: 1
- JAFFE, H.: *see* WILLIAMS, R. H.
- JAHAN, I. and PITTS, R. F. Parathyroid and renal reabsorption, 1948, 155: 42
- JAILER, J. W. Creatine metabolism after androgen and castration, 1940, 130: 503
- JANDORF, B. J. and WILLIAMS, R. H. Thiouracil and tissue metabolism of rat tissues, 1944, 141: 91
— *See* TEPPERMAN, J.
- JANES, R. G. Effect of diethylstilbestrol after thyroidectomy, 1946, 145: 411
— and BRADY, JOAN. Ketogenic action of niacin, 1949, 159: 547
— and BRADY, JOAN. Thiamine and alloxan diabetes, 1948, 153: 417
— and NELSON, W. O. Diethyl-stilbestrol on carbohydrate metabolism, 1942, 136: 136
— and NELSON, W. O. Stilbestrol and carbohydrate metabolism, 1942, 137: 557
— and PROSSER, M. High fat diet and alloxan diabetes, 1947, 151: 581
—, DAWSON, H. and MYERS, L. Adrenalectomy and alloxan diabetes, 1946, 145: 538
- JANNEY, C. D.: *see* GILBERT, D. L.
- JANOTA, MARTHA: *see* ARIMOTO, F.
— *See* WESTON, R. E.
- JANOWITZ, H. D. and GROSSMAN, M. I. Appetite factors, 1948, 155: 28
— and GROSSMAN, M. I. Minimal effective dose of histamine, 1949, 157: 94
— and GROSSMAN, M. I. Nutritive density and food intake, 1949, 158: 184
— and GROSSMAN, M. I. Regulation of food intake, 1949, 159: 143; 1951, 164: 182
—, HANSON, M. E. and GROSSMAN, M. I. Glucose and food intake, 1949, 156: 87
- JAQUES, L. B. Intravenous injection of heparin, 1939, 125: 98
— and DUNLOP, A. P. Calcium concentration and prothrombin time, 1945, 145: 67
— and DUNLOP, A. P. Prothrombin time of dogs treated with dicumarol, 1945, 143: 355
— *See* IRISH, U. D.
— *See* WATERS, E. T.
- JARCHO, L. W. Anesthesia and blood concentration, 1943, 138: 458
— and ROOT, W. S. Labyrinthectomy and sympathetic sensitization, 1940, 128: 526
—, EYZAGUIRRE, C., TALBOTT, S. A. and LILIENTHAL, J. L., JR. Neuromuscular block by C_{16} , 1950, 162: 475
- JASPER, H. and CIPRIANI, A. Recording of focal activities in brain tissues, 1940, 128: 488
— *See* ELLIOTT, K. A. C.
- JAUNDICE
— due to feeding of fat and choline, 1944, 142: 214
— obstructive, bile resorption in, 1942, 137: 97; 1944, 141: 483
— physiological, of newborn, 1948, 152: 205
- JAW JERK: *see* MANDIBULAR REFLEX
- JEFFERS, W. A.: *see* FREEMAN, N. E.
— *See* LANDIS, E. M.
- JEFFRIES, J. W.: *see* INGLE, D. J.
- JEGHERS, H.: *see* WALD, G.
- JEJUNUM
— bile and adsorption of sodium oleate from, 1942, 135: 776
— pedicle, gastric secretion, 1944, 141: 75
— thyroid and secretion in, 1944, 141: 602
— washing and gastric secretion, 1943, 140: 288
- JENSEN, H. and GRATAN, J. F. Glycotropic substance of anterior pituitary, 1940, 128: 270
—, TOLKSDORF, SIBYLLE and GRATAN, J. F. Gonadotropic antagonist in pituitary, 1940, 128: 532
— *See* GRATAN, J. F.
— *See* HAMOLSKY, M. W.
— *See* STEEPLES, G. L., JR.
- JENSEN, J. L.: *see* CODE, C. F.
- JEQUIER, R.: *see* PLOTKA, C.
- JERRARD, W.: *see* NICHOL, J. T.
- JESTER, A. W.: *see* ASHWORTH, C. T.
- JOCHIM, K. Auricles and ventricular filling in heart block, 1938, 122: 639
— *See* KATZ, L. N.
— *See* SUGARMAN, H.
— *See* WISE, W.
- JOCHIM, K. E.: *see* HERTZMAN, A. B.
- JOHN, E.: *see* GUNTHER, L.
- JOHN, E. S.: *see* PATT, H. M.
- JOHNSON CODE TEST
— psychomotor efficiency on B vitamin restrictions, 1946, 147: 44
— sulfa drugs and time to completion, 1942, 137: 596
- JOHNSON, A. C.: *see* HAWKINS, W. B.
- JOHNSON, A. D.: *see* GREEN, D. M.
- JOHNSON, B. C.: *see* ANDERSON, H. D.
- JOHNSON, C. A.: *see* WAKERLIN, G. E.
- JOHNSON, F. R.: *see* GRODINS, F. S.
- JOHNSON, G. C.: *see* SCOTT, V. B.
- JOHNSON, H. C.: *see* BERRYMAN, G. H.
- JOHNSON, J. A., CAVERT, H. N., LIFSON, N. and VISSCHER, M. B. Permeability of bladder to water, 1951, 165: 87
- JOHNSON, J. R. and DIPALMA, J. R. Intramyocardial pressure, 1939, 125: 234
— *See* PAFF, G. H.
— *See* RAY, G. B.
— *See* WIGGERS, C. J.
- JOHNSON, R. E., CONTRERAS, L. A., CONSOLAZIO, F. C. and ROBINSON, P. F. Intravenous and oral vitamin tolerance tests, 1945, 144: 58
—, PITTS, G. C. and CONSOLAZIO, F. C. Human sweat chloride, 1944, 141: 575

- JOHNSON, R. E.: *see* EDWARDS, H. T.
 — *See* EGAÑA, E.
 — *See* METHENY, ELEANOR
 — *See* MOREIRA, M. F.
 — *See* PITTS, G. C.
 — *See* SNYDER, C. D.
 — *See* WALD, G.
 JOHNSON, R. J.: *see* EVERETT, N. B.
 JOHNSON, RUTH E.: *see* RILEY, R. F.
 JOHNSON, V. and FREEMAN, W. Adaptive value of lymphatic absorption of fats, 1938, 124: 466
 — *See* CAHOON, D. H.
 — *See* DUPEE, C.
 — *See* FREEMAN, L. W.
 — *See* LOEWY, A.
 — *See* LONGINI, JOAN
 — *See* MOSS, W. G.
 — *See* SHULER, R. H.
 JOHNSTON, C. G.: *see* IRVIN, J. L.
 JOHNSTON, G. W.: *see* GREENE, J. A.
 JOINT REFLEXES
 in cat, 1950, 161: 133
 regulation of respiration, 1948, 153: 567
 JONES, B. F.: *see* THORN, G. W.
 JONES, D. C.: *see* KIMELDORF, D. J.
 JONES, E.: *see* HAHN, P. F.
 JONES, J. H. Food intake and parathyroid tetany, 1938, 122: 722
 —, Metal rickets, 1938, 124: 230
 JONES, LOUISE: *see* INGERSOLL, E. H.
 JONES, R. J. and GRIFFITH, F. R., JR. Intravenous adrenaline and respiratory exchange, 1944, 142: 744
 JORDAN, G.: *see* SHEPPARD, C. W.
 JORDAN, J. R. Potassium of stimulated muscle after adrenalectomy, 1945, 143: 558
 — *See* TROWBRIDGE, CAROLYN
 JOSEPH, G. H.: *see* PALMER, G. H.
 JOSEPH, N. R., REED, C. I. and HOMBURGER, E. pH of synovial fluid, 1946, 146: 1
 —, REED, C. I., KAPLAN, E. and STECK, I. E. Synovial membrane potentials, 1949, 157: 63
 —, REED, C. I., STECK, I. E., FOLK, F. and KAPLAN, E. Electrochemical study of synovialis in dogs, 1948, 153: 364
 — *See* KAPLAN, E.
 — *See* STARR, I.
 JOSLIN, D.: *see* LAWTON, R. W.
 JOY, MARGARET S.: *see* RICE, H. V.
 JUDD, TERESITA: *see* FARDON, J. C., SR.
 JUGULAR VEINS
 blood flow and cerebral metabolism, 1946, 147: 517
 JULIAN, O. C., CLARK, D. E., VAN PROHASKA, J., VERMEULEN, C. and DRAGSTEDT, L. R. Antagonism of lipocaic to pituitary in fat metabolism, 1943, 138: 264
 — *See* DRAGSTEDT, L. R.
 JUNG, F. T.: *see* FOLTZ, E. E.
 KABAT, H. Cardio-accelerator fibers in vagus nerve of dog, 1940, 128: 246
 — Resistance to arrest of brain circulation, 1940, 130: 588
 — and VISSCHER, M. B. Elastic properties of tortoise ventricle, 1939, 125: 437
 —, DENNIS, C. and BAKER, A. B. Functional recovery after arrest of brain circulation, 1941, 132: 737
 — *See* FREEDMAN, A. M.
 KADISH, M. A.: *see* MENKIN, V.
 KAHANA, EDA M.: *see* BALDWIN, D.
 KAHANA, L., ROSENBLITH, W. A. and GALAMBOS, R. Round-window response in the hamster, 1950, 163: 213
 KAHN, S. S.: *see* MANN, G. V.
 KAINDL, F. and VON EULER, U. S. Adrenaline output from suprarenal of cat, 1951, 166: 284
 KALCKAR, H. M. and LOWRY, O. H. Traumatic shock and release of adenylic acid, 1947, 149: 240
 KALLICREIN: *see* CALLICREIN
 KALOW, W.: *see* AVIADO, D. M., JR.
 KAMIN, H. and HANDLER, P. Amino acid excretion, 1951, 164: 654
 KAMMERLING, E., SLEZAK, G. and GROSSMAN, M. I. Acetylcholine on fundic mucosa, 1951, 167: 621
 KANEGIS, L. A.: *see* INNERFIELD, I.
 KAOLIN
 cisternal injection of, production of hypertension, 1938, 124: 86
 KAPLAN, A., FRIEDMAN, M. and KRUGER, H. E. Origin of renal lymph, 1943, 138: 553
 — *See* FRIEDMAN, M.
 KAPLAN, E., JOSEPH, N. R., REED, C. I. and SHEFFLER, P. W. Synovialis membrane potentials, 1949, 159: 505
 —, JOSEPH, N. R., REED, C. I. and SHEFFLER, P. W. Thiols and heavy metal inhibition, 1949, 159: 83
 —, JOSEPH, N. R. and SHEFFLER, P. W. Heavy metals and membrane potentials, 1949, 158: 63
 — *See* JOSEPH, N. R.
 KAPLAN, F. E.: *see* GOLLUB, S.
 KAPLAN, N. O. and GREENBERG, D. M. Insulin and phosphate changes of blood, muscle and liver, 1944, 140: 598
 KAPLAN, S. A. and RAPOPORT, S. Urinary excretion after splanchnicotomy, 1951, 164: 175
 —, FOMON, S. J. and RAPOPORT, S. Splanchnicotomy and electrolyte excretion, 1951, 166: 641
 KAPP, F., FRIEDLAND, C. K. and LANDIS, E. M. Skin temperature of hypertensive rabbits, 1941, 131: 710
 KARADY, S., ROSE, B. and BROWNE, J. S. L. Adrenal-ectomy and histaminase in tissues, 1940, 130: 539
 — *See* ROSE, B.
 KARCZMAR, A. G.: *see* SANDOW, A.
 KAREL, L. and FLEISHER, J. H. Gastric absorption of alcohol, 1948, 153: 268
 — and WESTON, R. E. Nitrogen content of blood, 1947, 151: 71
 KARPOVICH, P. V. Breath holding as test of physical endurance, 1947, 149: 720

- and MILLMAN, N. Energy expenditure in swimming, 1944, 142: 140
- and PESTRECOV, K. Gelatin and muscular work in man, 1941, 134: 300
- and RONKIN, R. R. Oxygen consumption of pilot in simulated flight, 1946, 146: 394
- See BLACK, W. A.
- KARSTENS, A. I.
- See HANEY, H. F.
- See YOUNG, W. B.
- KATHERMAN, R. E.: see BISCHOFF, F.
- KATZ, B.: see COHN, C.
- KATZ, G. Anesthesia and histamine release in anaphylaxis, 1940, 129: 735
- KATZ, L. N. and FRIEDBERG, L. Hemodynamic effect of dioxane derivative 933 F, 1939, 127: 29
- and JOCHIM, K. Innervation of coronary vessels of dog, 1939, 126: 395
- and KOLIN, A. Carotid blood flow with electromagnetic flowmeter, 1938, 122: 788
- and LINDNER, E. Action of excess Na, Ca and K on coronary vessels, 1938, 124: 155
- and LINDNER, E. Coronary blood flow after myocardial ischemia, 1939, 126: 283
- and MENDLOWITZ, M. Heart failure in the isolated heart circuit, 1938, 122: 262
- and STEINITZ, F. S. Pulmonary arterial pressure in renal hypertension, 1940, 128: 433
- , FRIEDBERG, L. and ASHER, R. Isotonic NaCl and glucose in shock, 1943, 140: 65
- , JOCHIM, K. and BOHNING, A. Extravascular ventricular support and coronary flow, 1938, 122: 236
- , JOCHIM, K. and GOLDMAN, A. Electrical field of heart after local injury, 1942, 137: 779
- , JOCHIM, K., LINDNER, E. and LANDOWNE, M. Resistance and input loads in cardiac energetics, 1941, 134: 636
- , JOCHIM, K. and WEINSTEIN, W. Distribution of coronary blood flow, 1938, 122: 252
- , KILLIAN, S. T., ASHER, R. and PERLOW, S. Action of desoxycorticosterone in shock, 1942, 137: 79
- , ROBBARD, S. and MEYER, JULIA. Vitamins A and D₂ and blood pressure, 1943, 140: 226
- , SHLESER, I. H., ASHER, R. and PERLOW, S. Experimental shock following venous occlusion, 1942, 137: 589
- , WISE, W. and JOCHIM, K. Control of coronary flow in denervated isolated heart, 1945, 143: 479
- , WISE, W. and JOCHIM, K. Dynamic alterations in failure period of isolated heart, 1945, 143: 507
- , WISE, W. and JOCHIM, K. Dynamics of isolated heart preparations, 1945, 143: 463
- , WISE, W. and JOCHIM, K. Dynamics of non-failure period of isolated heart, 1945, 143: 495
- See ARMAN, L. C.
- See BALLIN, I. R.
- See CARLEN, S. A.
- See FELDMAN, M., JR.
- See FRIEDBERG, L.
- See GROSSMAN, N.
- See HWANG, W.
- See KONDO, B.
- See LENDRUM, BESSIE
- See LENEL, R.
- See LINDNER, E.
- See MACK, I.
- See MEYER, JULIA
- See PERLOW, S.
- See PREC, O.
- See STAMLER, J.
- See SUGARMAN, H.
- See SURTSHIN, A.
- See VAN LOO, A.
- See WISE, W.
- KATZENELBOGEN, S., LOUCKS, R. B. and GANTT, W. H. Conditioned reflex secretion, 1939, 128: 10
- KATZENSTEIN, R., MYLON, E. and WINTERITZ, M. C. Toxicity of thoracic duct fluid in traumatic shock, 1943, 139: 307
- See MYLON, E.
- KAUER, J. T. and GLENN, F. Graded partial pancreatectomy, 1940, 131: 437
- KAUFMAN, W. Carotid body and skeletal muscle reflexes, 1938, 123: 677
- Central effects of sodium sulfide on muscle reflexes, 1938, 123: 687
- See HOFF, H. E.
- See NAHUM, L. H.
- KAULBERSZ, J., PATTERSON, T. L., SANDWEISS, D. J. and SALTZSTEIN, H. C. Urogastrone after removal of endocrine glands, 1947, 150: 373
- KAULBERSZ, J. W.: see KOSMAN, A. J.
- KAUNITZ, H. and PAPPENHEIMER, A. M. Oxygen consumption in vitamin E deficiency, 1943, 138: 328
- KAY, GLORIA A.: see WILLIAMS, R. H.
- KEATING, R. P.
- See BLAKE, W. D.
- See SOBERMAN, R. J.
- See WÉGRIA, R.
- KEELEY, J. L. Circulation time in atelectatic lung, 1941, 132: 93
- See GIBSON, J. G., 2nd
- KEENAN, H. C.: see CAMPBELL, J.
- KEETON, R. W., LAMBERT, E. H., GLICKMAN, N., MITCHELL, H. H., LAST, J. H. and FAHNESTOCK, M. K. Diet and tolerance of man to cold, 1946, 146: 66
- See GLICKMAN, N.
- See MITCHELL, H. H.
- KEIL, F. C., JR. and ROOT, W. S. Parasympathetic sensitization in the cat's eye, 1941, 132: 437
- and ROOT, W. S. Urethane and the parasympathetized eye, 1942, 136: 173
- KELLER, A. D. Nervous control of heat maintenance, 1948, 154: 82
- and BLAIR, J. R. Heat regulating fibers in pons, 1946, 147: 500
- and BRECKENRIDGE, C. G. Hypophysial stalk extirpation, 1947, 150: 222
- See BRECKENRIDGE, C. G.
- See HANDLEY, C. A.
- KELLER, MILDRED E.: see QUASTLER, H.

- KELLEY, V. C. and McDONALD, R. K. Altitude and CHO metabolism 1948, 152: 250
 — and McDONALD, R. K. Altitude anoxia and renal function, 1948, 154: 201
 — See GOOD, T. A.
 — See KEYES, G. H.
 — See McDONALD, R. K.
- KELSO, L. E. A.: see HELLEBRANDT, FRANCES A.
- KEMP, C. R., TUTTLE, W. W. and HINES, H. M. Temperature, blood flow and activity in skeletal muscle, 1947, 150: 705
- KEMP, CAROL: see WILLIAMS, R. H.
- KEMP, I., CARTWRIGHT, G. E. and WINTROBE, M. M. Leukopenia producing factor and inflammation, 1951, 165: 554
- KEMPSTER, H. L.: see TURNER, C. W.
- KEMPTON, R. T.: see BECK, L. V.
- KENDALL, E. C.: see EVERSOLE, W. J.
 — See INGLE, D. J.
- KENNARD, MARGARET A., HAMPEL, C. W. and WILLNER, M. D. Frontal lobectomy and blood sugar, 1947, 149: 246
 — See LAIDLAW, A. E.
- KENNEDY, BARBARA and OKEY, RUTH. Lipid metabolism and anemia after splenectomy, 1947, 149: 1
- KENNEDY, J. A. and CLARK, S. L. Reactions of the ductus arteriosus, 1942, 136: 140
- KENNEDY, JANET: see SHIH, H. E.
- KENNEDY, T. J., JR.: see BERLINER, R. W.
- KENNEY, R. A.: see BARCLAY, J. A.
- KENT, G. T.: see DINGLE, JANET T.
- KEPHRIN
 intestinal motility, 1939, 126: 242
- KERR, W. J.: see RALSTON, H. J.
 — See TROESCHER-ELAM, ELIZABETH
- KESSLER, M. and GELLHORN, E. Anoxia and brain potentials, 1942, 137: 703
 —, HAILMAN, H. F. and GELLHORN, E. Anoxic anoxia and central nervous system, 1943, 140: 291
 — See ARNETT, V.
 — See GELLHORN, E.
- KETO ACIDS (other than PYRUVIC)
 of blood gravity shock, 1944, 141: 166
- KETOGENIC ACTION: see KETOSIS
- KETOGENIC DIET
 ketones formed during exercise, 1943, 138: 749
- KETONEMIA: see KETONES, of blood
- KETONES
 decomposition products of fats, vitamin E destruction by, 1939, 125: 599
 of blood, adrenalectomy, 1939, 126: 754
 in fasted ducks and dogs, 1941, 135: 227
 in work during fasting, 1945, 143: 151
 insulin, 1941, 135: 134
 lipocic, 1941, 135: 134
 phlorhizin and, in normal and depancreatized ducks, 1941, 135: 227
 of urine, adrenalectomy, 1939, 126: 754
- KETOSIS
 adrenocortical hormones, 1942, 135: 460
 age, 1940, 130: 332
 anterior pituitary hormones, 1948, 152: 210
 cardiac glycogen deposition, 1946, 145: 471
 due to niacin in rat, 1949, 159: 547
 exercise, 1941, 134: 761
 ketone body-total carbohydrate ratios, 1939, 127: 745
 utilization of ketone bodies in, 1940, 130: 144
- 17-KETOSTEROIDS
 excretion of, by male rabbit, 1948, 152: 615
 sodium chloride deficiency, 1951, 164: 690
- KETY, S. S. and SCHMIDT, C. F. Cerebral blood flow in man, 1945, 143: 53
 — See ECKENHOFF, J. E.
 — See SCHMIDT, C. F.
- KEYES, G. H. and KELLEY, V. C. Decompression and sugar tolerance, 1949, 158: 358
 — and KELLEY, V. C. Effect of adrenal cortical extract, 1949, 158: 351
- KEYS, A. Cardiac output by foreign-gas method, 1941, 134: 268
 — Massive doses of insulin and blood serum, 1938, 123: 608
 — Oxygen saturation of venous blood, 1938, 124: 13
 — Plasma potassium after administration of epinephrine, 1938, 121: 325
 — and FRIEDEL, H. L. Stroke volume of human heart from roentgenograms, 1939, 126: 741
 —, HENSCHEL, A. F. and TAYLOR, H. L. Human heart in semi-starvation, 1947, 150: 153
 —, HENSCHEL, A. F., TAYLOR, H. L., MICKELSEN, O. and BROZEK, J. Restricted intake of B vitamins in man, 1945, 144: 5
 —, STAPP, J. P. and VIOLANTE, A. Cardiac response to changes of inspired air, 1943, 138: 763
 — See ERICKSON, L.
 — See HENSCHEL, A. F.
 — See SIMONSON, E.
 — See TAYLOR, H. L.
- KIANG, S. P.: see DE BODO, R. C.
- KIDNEY
 action of 'benemid' on, 1951, 166: 625
 apparatus for measuring renal blood flow and renal arterial pressure, 1951, 167: 677
 artificial, 1949, 156: 443; 1951, 167: 553
 back-diffusion of urea in, 1943, 139: 504
 blood pressure in, experimental hypertension, 1941, 134: 493
 circulation, adrenaline, 1947, 151: 621
 exercise, 1948, 152: 505
 hemorrhage, transfusion, 1950, 161: 442
 resistance, blood pressure, 1947, 150: 539
 circulation time, measured with P^{32} , 1951, 164: 618
 collection of fluids from glomeruli and tubules, 1941, 134: 562
 collection and analysis of fluid from single nephrons, 1941, 134: 580
 constriction of parenchyma in experimental hypertension, 1940, 130: 22
 dehydration and potassium secretion, 1950, 161: 159
 denervated, diuresis, 1947, 148: 264
 dietary salt, 1949, 159: 149
 distribution of blood in, 1950, 163: 676

diuresis, 1944, 142: 446
 dehydration, 1944, 142: 446
 enzymatic factors in tubular secretion of phenol red, 1950, 161: 259
 epinephrine, 1943, 140: 221
 estradiol distribution after injection, 1951, 165: 672
 estrogens and x-ray injury to, 1949, 159: 274
 experimental chronic hypertension, 1944, 142: 666
 experimental hypertension, role of nervous system in, 1950, 161: 435
 explanted, removal of diodrast from blood by, 1941, 134: 333
 factor in shock, 1951, 166: 658
 factors which affect glomerular activity in, 1947, 150: 523
 flow and composition of lymph from, 1942, 138: 110
 glomeruli, epinephrine, 1939, 126: 347
 hemodynamics of, 1944, 142: 355; 1951, 167: 523
 in experimental polycythemia, 1951, 165: 399
 magnesium sulfate, 1951, 166: 199
 hemorrhage and tissue metabolites in, 1946, 147: 446
 hemorrhagic hypotension, 1948, 155: 106
 humoral mechanism in hemorrhage in shock, 1942, 136: 276
 hyperemia following adenylic acid derivatives, 1948, 153: 159
 with cinchona alkaloids, 1947, 148: 684
 implantation, depressor action of in hypertensive dog, 1950, 160: 22
 inanition, B-complex deficiency, 1950, 161: 516
 innervation in tubular function, 1943, 139: 103
 iron storage and x-irradiation, 1951, 166: 384
 isolated, and diuretic agents, 1951, 167: 703
 lesions due to choline, 1947, 148: 561
 due to potassium deficiency, 1945, 145: 292
 motor cortex stimulation and renal volume, 1942, 137: 471
 nephro-omentopexy, 1949, 156: 79
 number of nephrons in, 1943, 139: 510
 origin of lymph from, 1943, 138: 553
 osmotic work in, 1949, 157: 357; 1949, 157: 363
 pathogenesis of hypertension, 1949, 157: 21
 pathology in acclimatization to high altitudes, 1951, 167: 265
 perfused, glomerular function under cyanide and anoxia, 1938, 122: 676
 hydroxytyramine, 1941, 132: 497
 perfusion apparatus for, 1951, 167: 704
 pH and buffer content of glomerular filtrate, 1948, 154: 177
 plasma flow in, 1948, 153: 169
 hypophysectomy, 1940, 130: 467
 suitability of various substances for measuring, 1940, 130: 454
 potassium arsenite, 1943, 139: 720
 potassium-low diet, desoxycorticosterone, 1942, 136: 347
 prolonged anterior pituitary treatment, 1946, 147: 299
 proximal convoluted tubules, alkaline phosphatase activity of, 1941, 134: 94

recovery of adrenaline-like substance from, 1938, 123: 364
 resistance to hemorrhage, 1943, 140: 416
 secretion of potassium, 1950, 161: 151
 secretion of renin by, 1942, 137: 47
 single nephrons, collection and analysis of fluids from, 1941, 134: 580
 sodium sulfate, 1950, 160: 353
 sustained pressor principle, 1947, 151: 606
 testosterone, estrogen, 1948, 155: 266
 threshold, for hemoglobin, 1938, 123: 516
 thyreotropic hormone, 1938, 124: 110
 time factor in production of pressor substance, 1941, 132: 2
 tubular secretion of inulin, 1938, 123: 281
 of phenol red, 1950, 161: 259
 tubules, isolated, adrenal cortical compounds and, 1944, 141: 138
 mechanism of sucrose damage to, 1944, 141: 431
 role in acidification of the urine, 1945, 144: 239
 uptake of radioactive bromine by, 1941, 134: 109
 urine acidification, 1945, 144: 239
 vascular by-passes in, 1950, 161: 250
 vascular resistance, hemorrhagic shock, 1946, 145: 702
 vascular shunts in, 1951, 165: 548
 vasoconstriction by humoral substance from, 1951, 164: 624
 work in urea diuresis, 1949, 158: 228
 work, load, 1949, 157: 382

KIDNEY CONSTITUENTS
 adrenergic substances in, 1947, 148: 473
 arginase and phosphatase of, 1948, 153: 210
 steroids, 1948, 155: 252
 Ca and P of after single massive dose of vitamin D, 1947, 149: 338
 vitamins A and D, 1947, 149: 325
 chloride of, 1938, 122: 228; 1940, 129: 600
 cholinesterase in, 1947, 148: 677
 composition in renal hypertension, 1950, 161: 450
 enterocrinin in, 1938, 121: 483
 enzymes of, diet, 1948, 154: 489
 estrogens and, 1947, 151: 126
 hormones and, 1948, 155: 262
 glutaminase in, 1948, 154: 542
 heparin of, 1939, 125: 104
 histaminase of, in various species, 1940, 129: 222; 1946, 146: 58
 histamine of, 1938, 124: 415
 nitrogen of, 1938, 121: 239
 phosphatases, parathyroid extract, 1951, 165: 145
 potassium and water of potassium deprived rats, 1940, 128: 452
 protein of, 1940, 128: 545
 of heart, liver, 1940, 129: 687
 radioactive chlorine in, 1941, 134: 86
 radioactive colloidal gold in, 1951, 164: 830
 radioactive iodine in, 1941, 132: 348
 radioactive potassium in, 1941, 132: 483
 riboflavin of, 1947, 149: 259
 shock and constituents, 1947, 149: 372
 sodium and potassium of, 1950, 162: 186

KIDNEY CONSTITUENTS

- thiamin of, 1938, 122: 487; 1947, 149: 257
- water content of, 1938, 121: 381
 - complex deficiency, 1944, 141: 85
- diet, exercise, 1940, 128: 539
- in intoxication, 1942, 136: 45

KIDNEY CORTEX

- anoxia and, production of pressor substance and, 1941, 132: 497
- arsenite and respiration of, 1945, 143: 640
- cold and metabolism, 1943, 139: 194
- extract from, 1938, 124: 285
- metabolism and potassium deficiency, 1951, 167: 319
- oxygen consumption of, 1945, 144: 88
- oxygen tension and pH of, 1950, 163: 181
- pressor substance from, 1938, 124: 285

KIDNEY EXCRETION (OF)

- amino acids, 1944, 140: 539
- calcium, 1949, 158: 205
- chloride, 1943, 140: 339
- creatinine and guanidoacetic acid, 1949, 157: 14
- endogenous creatinine, 1938, 123: 260
- N-methylnicotinamide, 1950, 160: 311
- PAH, acetate, 1950, 161: 191
- phosphate, 1951, 164: 662
- potassium, mechanism for, 1950, 162: 348
- potassium salts, 1942, 138: 94
- sodium, 1949, 158: 444
 - venous pressure, 1950, 162: 649
- sodium and potassium, 1950, 162: 655
- sulfanilamides, 1943, 139: 197
- sulfate, 1942, 137: 658
- titratable acid, 1946, 147: 481
- water and electrolyte, 1947, 148: 54
- water and sodium, emotional stress, 1951, 165: 149
- exercise, 1951, 165: 149

KIDNEY EXTRACT

- anti-pressor action of, 1940, 128: 716
- heated, protein, of, 1940, 128: 680
- hypertension, 1940, 130: 499; 1940, 130: 570; 1944, 140: 628
- pressor effect of, 1940, 128: 563; 1940, 128: 675; 1941, 131: 710

KIDNEY FUNCTION

- acceleration, 1948, 155: 195
- adrenal cortical insufficiency, 1939, 125: 66; 1939, 125: 633
- adrenalectomy and, 1938, 121: 528; 1948, 154: 229
- adrenaline, 1947, 151: 621
- age, 1938, 123: 500
- anesthesia, 1945, 143: 108
- anoxia, 1948, 154: 193; 1948, 154: 201
- anterior pituitary, 1942, 136: 584; 1950, 160: 321
- arterial constriction, 1950, 163: 422
- arterial pulse pressure, 1951, 167: 689
- barbital anesthesia, 1943, 140: 236
- 'benemid', 1951, 166: 625
- blood flow during renal nerve stimulation, 1950, 163: 442
- cardiac output, 1951, 165: 278
- chronic anemia, 1951, 164: 682
- clearance: *see* RENAL CLEARANCE

- comparison of bromide and inulin space in insufficiency of, 1950, 162: 322
- diabetes insipidus, 1938, 122: 288; 1943, 139: 700
- diet, 1943, 139: 700
- emotional stress, 1949, 157: 31
- endocrine influences on, 1947, 149: 404
- estimation with diodrast and inulin, 1942, 137: 564
- estrogens, 1943, 140: 264
- extracellular fluid volume, 1950, 162: 677
- glomerular intermittence, absence in dogs and rabbits, 1939, 128: 160
- glomerular permeability of plasma phosphate, 1951, 164: 646
- glucose utilization, 1938, 124: 279
- graded arterial pressure, 1949, 159: 369
- growth hormone, 1949, 157: 47
- hemodynamics, 1951, 166: 649
- hemorrhage, transfusion, 1950, 161: 442
- hormones, 1943, 139: 543
- hypophysectomy, 1949, 156: 67
- hypoproteinemia, 1950, 162: 153; 1950, 162: 162
- in denervated organ with demedullated adrenal, 1947, 150: 536
- increased renal venous pressure, 1949, 157: 1
- increasing sodium load and reabsorptive mechanism, 1950, 162: 639
- intra-abdominal pressure, 1951, 167: 241
- ischemia and, 1945, 144: 395; 1948, 152: 523
- magnesium deprivation, 1938, 121: 424
- measurements of glomerular intermittence, 1939, 128: 159
- nephrectomy, 1938, 122: 611
- parathyroid extract, 1951, 165: 142
- parathyroid hormone, 1940, 129: 242
- phlorhizin, 1940, 130: 582
- pituitary extract and tubular excretion, 1940, 128: 748
- polycythemia, 1951, 165: 401
- polyuria, 1938, 123: 566
- pregnancy, 1939, 127: 731
- renal artery occlusion, 1951, 166: 666
- renal blood flow, 1939, 126: 361
- renal venous pressure, 1949, 157: 40
- renin and, 1940, 129: 698; 1948, 153: 458
- salt depletion, 1951, 167: 478
- salyrgan and tubular secretion of PAH, 1948, 154: 537
- seasonal heat stress, 1951, 164: 497
- self-depression of T_{MPAH} , 1951, 167: 531
- shock, 1945, 145: 317
- simultaneous clearance, 1948, 155: 282
- sodium and water excretion, 1951, 165: 411
- splanchnicotomy, 1951, 164: 175
- sucrose and inulin secretion, 1940, 129: 252
- supplemented by intestinal perfusion, 1951, 166: 137
- testosterone, 1942, 137: 338
 - estradiol, 1951, 165: 93
- tetrathionate injection, 1946, 147: 119
- tissue injury, 1950, 160: 21
- tubular, innervation, 1943, 139: 103
- uranium, 1943, 139: 155; 1948, 154: 220
- vascular shunt, 1951, 165: 548

- venous obstruction, 1951, 164: 143
- venous pressure in, 1951, 164: 146
- vitamin A, 1939, 125: 790; 1943, 140: 244
- water diuresis, exercise, 1947, 148: 333
- KIDNEY METABOLISM**
 - amphibian, ammonia formation in, 1940, 131: 187
 - carbohydrate tolerance, 1948, 153: 393
 - carbon dioxide production at high oxygen tension, 1947, 148: 499
 - citric acid, calcium, 1950, 160: 335
 - cold, 1943, 139: 194
 - conversion of hexose to pentose in, 1950, 162: 422
 - electrolyte, in slices, 1951, 167: 206
 - energy source for transport mechanisms in, 1951, 166: 104
 - energy transformations in during shock, 1946, 146: 271
 - enzymatic conversion of cyanide to thiocyanate in, 1948, 153: 351
 - estrogen, 1938, 122: 113
 - fish, respiration of, 1950, 161: 171
 - formation of ammonia, 1938, 124: 66
 - fructose, 1944, 141: 669
 - glucogenesis, 1943, 140: 276; 1947, 151: 198; 1948, 153: 205; 1950, 163: 655
 - hemoglobin destruction, 1948, 153: 47
 - gluconeogenesis, 1949, 156: 345; 1951, 165: 423
 - hormones, 1938, 122: 169; 1938, 122: 296
 - methanol, 1950, 163: 617
 - methylene blue, digosulfonate, 1938, 122: 404
 - nitrogen metabolism, 1948, 153: 55
 - oxygen consumption of, 1941, 132: 77; 1945, 144: 88
 - adrenalectomy, 1940, 130: 231
 - in various media, 1939, 127: 297
 - pH and, 1939, 127: 292; 1941, 132: 565
 - quinidine, 1942, 136: 386
 - shed blood, 1941, 133: 24
 - shock, 1946, 145: 340
 - PAH accumulation by slices of, 1950, 161: 181
 - phosphorus turnover in, 1942, 138: 176
 - phosphorylation of adenosine by, 1950, 162: 168
 - potassium deficiency, 1951, 167: 319
 - production of ferritin by, 1950, 160: 1
 - progesterone, 1944, 142: 327
 - protein anabolism in, 1940, 129: 687
 - renal hypertension, 1938, 122: 38
 - repayment of oxygen debt in, 1939, 127: 285
 - respiration of, arsenite, 1945, 143: 640
 - serum proteins, 1942, 135: 319
 - respiratory quotient of, 1938, 122: 113
 - hormones, 1938, 122: 169; 1938, 122: 296
 - slices, potassium accumulation in, 1951, 165: 113
 - respiration of, 1940, 161: 181
 - uric acid and allantoin, 1947, 150: 679
- KIDNEY SIZE**
 - after dinitrophenol and vitamin B₁, 1938, 121: 107
 - altitude, 1943, 140: 382; 1943, 140: 388
 - androgens, 1948, 153: 210; 1948, 154: 461
 - estrogens, 1947, 151: 126
 - growth hormone, 1951, 165: 442
 - hypertension, 1939, 125: 589
 - intraperitoneal injection of Ringer's 1938, 121: 189
 - pituitary extract, 1939, 128: 172
 - salt restriction, 1951, 165: 130
 - steroids, 1944, 142: 315; 1946, 145: 551, 1948, 155: 243
 - thyroidectomy, 1946, 145: 682
 - x-radiation, total solids, 1947, 150: 484
- KIDNEY TUBULAR REABSORPTION (OF)**
 - 'adsorption semipermeability' model for maximal tubular transport, 1951, 164: 662
 - alanine and filtration rate, 1947, 148: 446
 - amino acids, 1944, 140: 535
 - filtration, 1946, 145: 497
 - bromide, 1950, 163: 436
 - chloride, 1947, 148: 446
 - DNP, 1950, 161: 173
 - glucose, 1938, 122: 765
 - glycine and creatine, 1943, 140: 162
 - lactic acid, 1946, 146: 152
 - maximum of glucose, 1951, 165: 407
 - mechanism of, 1944, 140: 541
 - phosphate, 1941, 134: 783; 1951, 164: 670
 - phosphate and calcium, 1948, 155: 42
 - production of urinary acidity, 1948, 154: 174
 - sulfate, 1947, 151: 311
 - transport in, 1950, 161: 167
 - common links between excretion and reabsorption, 1944, 142: 189
 - mechanisms and succinate oxidation, 1951, 166: 104
 - mechanisms for Na and K, 1951, 165: 109
 - urea, 1941, 135: 113
 - xylose, 1938, 122: 775
- KIDNEY, BLOOD FLOW: see RENAL BLOOD FLOW**
- KIDNEYS, REMOVAL OF: see NEPHRECTOMY**
- KIELY, W. F., HAMILTON, S. L. and GELLHORN, E.** Hemorrhage and skeletal muscle tone, 1942, 137: 251
 - See GELLHORN, E.
- KILLIAN, S. T.: see KATZ, L. N.**
- See PERLOW, S.
- KIMELDORF, D. J.** 17-ketosteroid excretion of rabbits, 1948, 152: 615
 - and JONES, D. C. Exercise and irradiation, 1951, 167: 626
- KIMURA, G. and CORNWELL, W. S.** Progesterone content of corpus luteum of sow, 1938, 123: 471
- KINDRED, J. E.** Low barometric pressure and renal structure, 1943, 140: 387
- KING, B. G., COLE, K. S. and OPPENHEIMER, ENID T.** Disappearance curves of dye from blood stream, 1943, 138: 636
- KING, C. E. and ROBINSON, M. H.** Nervous mechanisms of muscularis mucosae, 1945, 143: 325
 - , GLASS, L. C. and TOWNSEND, S. E. Components of muscularis mucosae of small intestine, 1947, 148: 667
- KING, J. T.: see CASAS, CARMEN B.**
- See LEE, Y. C. P.
- KING, JESSIE L.** Injection of antuitrin and prolongation of gestation, 1938, 122: 455

- KINGDON, CLARA L., BUNNELL, I. L., and GRIFFITH, F. R., JR. Basal metabolism following controlled feeding, 1942, 137: 114
- KINKAJOU
blood sugar and body temperature changes on emotional excitation, 1939, 125: 731
- KINNEY, T. D.: *see* HELLEMS, H. K.
- KINSMAN, GLADYS M.: *see* PITTMAN, MARTHA S.
— *See* YOUNG, CHARLOTTE M.
- KIRBY-SMITH, J. S.: *see* BLUM, H. F.
- KIRKLIN, J. W.: *see* LOGAN, M. A.
- KIRSCH, R. E. Control of length of gestation in the rat, 1938, 122: 86
- KISCH, B. Cardiac inhibition in the sturgeon, 1950, 160: 552
— Intracranial novocain anesthesia, 1948, 154: 80
— and SCHWARZSCHILD, M. M. Conducting band and muscle action currents, 1943, 138: 412
— *See* HOFF, H. E.
— *See* NAHUM, L. H.
- KITE, W. C., JR.: *see* BABKIN, B. P.
- KLEIBER, M. and COLE, H. H. Body size and energy metabolism, 1939, 125: 747
— and COLE, H. H. Rat size and metabolic rate, 1950, 161: 294
- KLEIN, J. R.: *see* BAIN, J. A.
- KLEIN, S. P.: *see* LEVINE, R.
- KLEINBERG, W., REMINGTON, J. W., DRILL, V. A. and SWINGLE, W. W. Nervous factor in circulatory shock, 1942, 137: 362
—, REMINGTON, J. W., EVERSOLE, W. J., OVERMAN, R. R. and SWINGLE, W. W. Plasma, gelatin and saline in traumatic shock, 1943, 140: 197
—, SWINGLE, W. W. and HAYS, H. W. Intramuscular pressure changes in shock, 1945, 143: 89
— *See* EVERSOLE, W. J.
— *See* SWINGLE, W. W.
- KLEINER, I. S.: *see* DOTTI, L. B.
- KLEITMAN, N., TITELBAUM, S. and FEIVISON, P. Body temperature and reaction time, 1938, 121: 495
— *See* MULLIN, F. J.
— *See* WHATMORE, G. B.
- KLINE, D. L. Hemorrhage and plasma amino nitrogen, 1946, 146: 654
— Plasma amino nitrogen in the dog, 1948, 154: 87
- KLINE, R. F. Tolerance to anoxia and CO₂, 1947, 151: 538
— *See* BRITTON, S. W.
— *See* SILVETTE, H.
— *See* VAN MIDDLESWORTH, L.
- KLINGE, F. W. Plexus-free intestinal segment behavior, 1951, 164: 284
- KLINGHOFFER, K. A. Distribution of glucose between cells and serum, 1940, 130: 89
- KLOPP, C. T. Partially denervated smooth muscle, 1940, 130: 475
- KNAPP, G. M.: *see* PAGE, I. H.
- KNEE JERK
asphyxial depolarization in spinal cord, 1946, 147: 679
benzedrine, 1942, 136: 395
diagram of apparatus used to elicit, 1939, 128: 14
in concussion, 1946, 146: 344
in cord asphyxiation, 1944, 141: 98
mechanical vibration, 1948, 155: 78
pentobarbital, 1947, 150: 547
statistical analysis of, 1944, 141: 66
- KNEE JOINT
sensory fibers from, in cat, 1948, 152: 436
- KNEHR, C. A., DILL, D. B. and NEUFELD, W. Training and its effects on man at rest and at work, 1942, 136: 148
— *See* HORVATH, S. M.
— *See* ROUGHTON, F. J. W.
- KNELLER, A. W. and NASSET, E. S. Insulin hypoglycemia and intestinal secretion, 1949, 159: 89
- KNOEFEL, P. K.: *see* Shore, R.
- KNOFF, B. W.: *see* GREENBERG, D. M.
- KNOWLES, VIRGINIA H.: *see* CALLISON, ELIZABETH C.
- KNOWLTON, F. P. Inhibition by direct stimulation of turtle heart, 1942, 135: 446
— Inhibition of turtle atria by single induction shocks, 1943, 140: 93
- KNOWLTON, G. C. Gelatine feeding and muscular power, 1940, 131: 426
— Muscle recovery, 1949, 158: 470
— and HINES, H. M. Effects of growth and atrophy on muscle strength, 1940, 128: 521
— and LARRABEE, M. G. Unitary analysis of pulmonary volume receptors, 1946, 147: 100
— *See* HINES, H. M.
— *See* LARRABEE, M. G.
— *See* WINTER, C. A.
- KOCHAKIAN, C. D. Anabolic properties of steroids, 1950, 160: 53
— Estrogens and tissue enzymes, 1947, 151: 126
— Kidney phosphatase, 1948, 152: 257
— Properties of steroids, 1949, 158: 51
— Protein anabolism and hormones, 1950, 160: 66
— Renotrophic and androgenic activity of steroids, 1944, 142: 315; 1946, 145: 549
— Steroid hormones and phosphatases of kidney, 1945, 145: 118
— and BEALL, BETTY. Androgen and protein anabolism, 1950, 160: 62
— and STETTNER, CONSTANCE E. Hormones and enzymes, 1948, 155: 262
— and STETTNER, CONSTANCE E. Hormones and protein anabolism, 1948, 155: 255
— and TEREPKA, A. R. Parathyroid extract and kidney function, 1951, 165: 142
—, BARTLETT, MARY N. and GONGORA, J. Effect of androgens, 1948, 153: 210
—, BARTLETT, MARY N. and MOE, JEAN G. Adrenals, diet and enzymes, 1948, 154: 489
—, COHN, LAURA, QUIGLEY, ELLEN and TRYBALSKI, EDITH. Testosterone and protein anabolism, 1948, 155: 272
—, GARBER, E. E. and BARTLETT, MARY N. Hormone, organ weights and enzymes, 1948, 155: 265
—, HASKINS, A. L., JR. and BRUCE, R. A. Metabolism of progesterone in rabbit, 1944, 142: 326

- , HUMM, JANE H. and BARTLETT, MARY N. Action of steroids, 1948, 155: 242
- , MOE, JEAN G. and DOLPHIN, J. Protein anabolism and androgens, 1950, 162: 581
- , ROBERTSON, EVANGELINE and BARTLETT, MARY N. Protein anabolic effect of androgens, 1950, 163: 332
- See HUMM, JANE H.
- See VAIL, VIRGINIA N.
- KOCHER, H.: see BARLOW, O. W.
- KOCOUR, E. J. and IVY, A. C. Certain foods and quantitative bile volume output, 1938, 122: 325
- KOELLE, R. S.: see GILMAN, A.
- See PHILIPS, F. S.
- KOENEMANN, R. H.: see FENN, W. O.
- KOENIG, H. and KOENIG, RUTH. Pathogenesis of pulmonary edema, 1949, 158: 1
- See CHAMBERS, W. W.
- KOENIG, RUTH: see CHAMBERS, W. W.
- See KOENIG, H.
- KOENIG, V. L., GASSNER, F. X. and GUSTAVSON, R. G. Estrone and stilbestrol on growth and thyroid iodine, 1945, 144: 363
- KOEPP, G. F., HORN, H. W., GEMMILL, C. L. and THORN, G. W. Adrenal hormone and liver synthesis of carbohydrate, 1941, 135: 175
- See LOOMIS, T. A.
- See THORN, G. W.
- KOHLSTAEDT, K. G.: see SHIPLEY, R. E.
- KOHN, H. I. Changes in blood, 1950, 160: 277
- Changes in radiation syndrome, 1951, 165: 43
- Plasma levels and fasting, 1950, 163: 410
- Radiation syndrome, 1950, 162: 703; 1951, 165: 27
- See BARLOW, H. B.
- KOHRMAN, R. M., NOLASCO, J. B. and WIGGERS, C. J. Afferent phrenic fibers, 1947, 151: 547
- KOIDE, S. and FREEMAN, S. Eck fistula formation and alloxan diabetes, 1951, 167: 193
- KOKERNOT, R. H.: see HARRIS, A. S.
- KOLB, L. C. Micturition after removal of vesical trigone, 1939, 128: 195
- KOLIN, A.: see KATZ, L. N.
- KOLINSKY, MURIEL: see COHN, C.
- KOLLROS, J. J.: see EICHELBERGER, LILLIAN
- KOMAROV, S. A., SHAY, H. and SIPLET, H. Secretion of gastric mucin, 1949, 158: 194
- See GROSSBERG, A. L.
- See LORBER, S. H.
- KOMRAD, E. L. and LOEW, E. R. Inhibition of hyperglycemia, 1951, 165: 66
- KONDO, B. and KATZ, L. N. Heart size in shock produced by venous occlusion, 1945, 143: 77
- See GROSSMAN, N.
- See LENDRUM, BESSIE
- KONHEIM, BEATRICE G. Cerebellar and medullary pathways of frog, 1939, 127: 232
- KOPALA, J.: see IRVIN, J. L.
- KOPPANYI, T., LINEGAR, C. R. and HERWICK, R. P. Analysis of vasodepressor actions of acetylcholine, 1940, 130: 346
- KORENBERG, M.: see MIRSKY, I. A.
- KORNBERG, A. and ENDICOTT, K. M. Potassium deficiency in the rat, 1946, 145: 291
- , TABOR, H. and SEBRELL, W. H. Blood regeneration in pyridoxine-deficient rats, 1945, 143: 434
- , TABOR, H. and SEBRELL, W. H. Blood regeneration in vitamin deficiency, 1945, 145: 54
- , TABOR, H. and SEBRELL, W. H. Folic acid and blood regeneration after hemorrhage, 1944, 142: 604
- KORR, I. M.: see DENSLOW, J. S.
- KORTEWEG'S FORMULA
in calculating stroke volume from pulse wave velocity, 1945, 144: 536
- KORY, R. C.: see WIGGERS, H. C.
- KOSIN, I. L. Body size of baby chicks in hormone assays, 1940, 129: 283
- See MUNRO, S. S.
- KOSMAN, A. J., KAULBERSZ, J. W. and FREEMAN, S. Intestinal secretion alkaline phosphatase, 1943, 138: 236
- , OSBORNE, S. L. and IVY, A. C. Electrical stimulation and denervated muscle, 1946, 145: 447
- , WOOD, E. C. and OSBORNE, S. L. Atrophy of skeletal muscle, 1948, 154: 451
- See SIEMS, L. L.
- KOSSMAN, C. E.: see ERSHLER, I.
- KOSUPKIN, J. M. and OLMSTED, J. D. M. Cardiac slowing as conditioned reflex, 1943, 139: 550
- KOTTKE, F. J., CODE, C. F. and WOOD, E. H. Tests of renal function after adrenalectomy, 1942, 136: 229
- , KUBICEK, W. G. and VISSCHER, M. B. Arterial hypertension by renal nerve stimulation, 1945, 145: 38
- , PHALEN, J. S., TAYLOR, C. B., VISSCHER, M. B. and EVANS, G. T. Hypoxia and temperature regulation, 1948, 153: 10
- , TAYLOR, C. B., KUBICEK, W. G., ERICKSON, D. M. and EVANS, G. T. Adrenals and altitude tolerance, 1948, 153: 16
- KOUWENHOVEN, W. B.: see HOOKER, D. R.
- KRAFKA, J., JR. Histo-physics of the aorta, 1939, 125: 1
- KRAFT, F. L.: see JACOBSON, E.
- KRAMER, K. and LUFT, U. C. Spleen in severe hypoxia, 1951, 165: 215
- , ELAM, J. O., SAXTON, G. A. and ELAM, W. N., JR. Light transmittance of whole blood, 1951, 165: 229
- KRASNO, M. R.: see MAASKE, C. A.
- KRAUSE, A. C. Indicator yellow, 1943, 140: 40
- Provisual red and visual red, 1946, 145: 561
- and SIDWELL, A. E., JR. Absorption spectra of visual purple, 1938, 121: 215
- KREHBIEL, R. H. and CARSTENS, H. P. Transport of sperm in female rabbit, 1939, 125: 571
- KREHL, W. A.: see TEPLY, L. J.
- KREISLER, O.: see HORWITT, M. K.
- KREISS, RUTH E.: see BENNETT, L. L.
- KREMER, W. F. Cerebral cortex and blood pressure, 1948, 152: 314
- KREMS, A. D.: see DENSLOW, J. S.

- KRICHESKY, B. Thyroidectomy and gestation period in rabbit, 1939, 126: 234
- and POLLOCK, W. Histamine-like substance in post-partum uterus, 1940, 130: 319
- KRISS, J. P., FUTCHER, P. H. and GOLDMAN, M. L. Adrenals and renal function, 1948, 154: 229
- KRITZLER, R. A. and GUTMAN, A. B. Phlorizin glycosuria, 1941, 134: 94
- KROP, S.: *see* KUNKEL, ANNE M.
- KRUEGER, H.: *see* AUER, J.
- KRUEGER, L.: *see* MACINTOSH, F. C.
- KRUGER, H. E.: *see* BERGMAN, H. C.
- *See* FRIEDMAN, M.
- *See* KAPLAN, A.
- KRUSE, T. K.: *see* McLAIN, P. L.
- KRUSEN, F. H.: *see* QUINTANILLA, R.
- *See* WAKIM, K. G.
- KRYPTON (RADIOACTIVE)
- cardiovascular effects of certain drugs, 1945, 144: 164
- KUBICEK, W. G.: *see* KOTTKE, F. J.
- KUETHER, C. A. Glucose-1-phosphate tolerance, 1951, 167: 355
- KUIZENGA, M. H., NELSON, J. W. and CARTLAND, G. F. Assay of adrenal cortical hormone substances, 1940, 130: 298
- , NELSON, J. W. and CARTLAND, G. F. Bioassay of heparin preparations, 1943, 139: 612
- , NELSON, J. W. and INGLE, D. J. 17-Hydroxy-11-dehydrocorticosterone and adrenalectomy, 1943, 139: 499
- *See* INGLE, D. J.
- KUNERTH, BERNICE L.: *see* PITTMAN, MARTHA S.
- KUNKEL, ANNE M., KROP, S. and WESCOE, W. C. Serum and red cell cholinesterase activity, 1948, 152: 309
- KUPFER, S., THOMPSON, D. D. and PITTS, R. F. Kidney response to diuretic agents, 1951, 167: 703
- KUPPERMAN, H. S. and MEYER, R. K. Mechanism of antihormone inhibition, 1945, 145: 181
- , MEYER, R. K. and FINERTY, J. C. Antigonadotropic serum and gonadal development, 1942, 136: 293
- *See* SHULER, R. H.
- KURAMOTO, K.: *see* STAMLER, J.
- KURTZ, M.: *see* DE BODO, R. C.
- KUYPER, A. C.: *see* MILLER, S. P.
- L**
- LA FORGE, M.: *see* HANDLEY, C. A.
- *See* HUGGINS, R. A.
- LABATE, J. S. and SHEEHAN, D. Atropine and uterine response to nerve stimulation, 1943, 139: 178
- *See* SHEEHAN, D.
- LABOR (PARTURITION)
- abdominal and arterial pressures during, 1938, 121: 640
- contractile proteins of uterus, 1950, 160: 46
- LABYRINTH
- cold and receptors in, 1944, 141: 404
- removal of, effects, 1938, 121: 392
- sympathetic sensitization, 1940, 128: 526
- stimulation, cerebral blood flow, 1944, 142: 592
- systemic blood pressure, 1944, 142: 592
- ways of stimulating, 1944, 142: 589
- LABYRINTHINE REFLEXES
- thiamin deficiency, 1944, 141: 444
- LACKEY, R. W., BUNDE, C. A. and HARRIS, L. C. Cardiac glycogen deposition and ketosis, 1946, 145: 470
- *See* MUIRHEAD, E. E.
- LACRIMAL GLAND
- cholinesterase in, 1947, 148: 677
- superior cervical ganglion and secretion, 1938, 123: 359
- LACRIMATION
- dehydroascorbic acid, 1951, 167: 119
- LACTALBUMIN
- protein, of heart, kidney, liver, 1940, 129: 687
- LACTATE
- accumulation during work, 1942, 136: 153
- as substrate for perfused rat heart, 1949, 158: 272
- as treatment in hemorrhagic shock, 1946, 146: 432
- in tourniquet shock, 1947, 148: 542
- distribution between blood and muscle, 1938, 122: 359
- distribution in plasma and urine after oral ingestion, 1946, 146: 150
- excretion during acid and alkaline infusion, 1946, 146: 148
- failure to form liver glycogen in alloxan treated animals, 1950, 160: 107
- formation in relation to livability of sperm, 1945, 143: 696
- formed from acetate, 1951, 166: 128
- in anaerobic tetanus of muscle, 1939, 125: 763
- injection of, pH of blood and synovial fluid, 1946, 146: 9
- isomeric composition, utilization and renal reabsorption, 1946, 146: 155
- metabolism of, after hemorrhagic shock, 1945, 144: 233
- during exercise, ischemia, 1942, 138: 22
- movement of potassium, 1940, 131: 494
- muscle contraction, 1945, 145: 7
- of blood, 1942, 138: 7
- acclimatization to high altitude, 1947, 149: 574
- adrenaline and, 1938, 123: 434; 1939, 127: 415; 1940, 130: 201
- after exercise, methemoglobinemia, 1946, 146: 706
- after glucose and exercise in the diabetic, 1949, 156: 92
- altitude, various hormones, 1949, 158: 360
- arterio-venous differences of, after shock, 1945, 144: 235
- carotid body, 1938, 121: 10
- chloralose anesthesia, 1941, 131: 563
- distribution between, and muscle, 1938, 122: 359
- ether anesthesia, 1940, 131: 449
- exchange during hypoglycemia, 1939, 127: 685
- exercise and, 1938, 122: 106; 1940, 128: 420; 1944, 141: 635; 1944, 142: 204
- exercise and, sex, 1942, 137: 320
- fluctuations in, 1943, 140: 125

- gravity shock, 1944, 141: 166
hemorrhage, 1945, 143: 580; 1946, 147: 450
in man, 1942, 138: 7
in normal and sympathectomized dogs, 1938, 124: 254
influence of various organs on, 1947, 148: 324
influence on ischemic pain, 1939, 127: 315
insulin, 1940, 129: 785
liver removal of, after hemorrhagic shock, 1945, 144: 237
output of tissues, adrenaline, 1946, 146: 679; 1947, 149: 64
shock, 1945, 145: 97; 1946, 146: 267; 1947, 149: 54; 1947, 149: 373
sodium benzoate, 1944, 140: 553
starvation and dehydration, 1947, 148: 603
tourniquet shock, 1945, 144: 496; 1946, 147: 66
training, 1941, 132: 757
traumatic shock, 1951, 165: 536
uric acid excretion, 1944, 141: 72
of brain, anoxia, 1949, 156: 154
carbon dioxide, 1949, 158: 478
during sleep, 1948, 154: 73
following hemorrhagic shock, 1945, 144: 690
of muscle column, work and recovery of, 1941, 132: 341
of serum, 1942, 138: 7
of tissues in hemorrhagic shock, 1946, 147: 446
of urine, blood, and feces, on various diets, 1947, 148: 624
of urine, glucose and fructose, 1938, 124: 79
oxygen consumption when substrate, 1941, 135: 183
production by diabetic tissues, 1949, 158: 264
pyruvate ratio, altitude and various hormones, 1949, 158: 360
renal reabsorption of, 1946, 146: 152
retention in liver, 1941, 132: 679
training and blood concentration, 1941, 132: 757
visceral usage of, following hemorrhagic shock, 1945, 144: 237
- LACTATION**
adrenocortical hormones, 1938, 122: 16
growth, 1938, 123: 589
impairment on vitamin B₁₂ diet, 1951, 165: 82
prothrombin activity, 1942, 137: 510
sensitivity of endometrium during, 1938, 122: 624
sympathectomy, 1938, 122: 659
- LACTOBACILLUS CASEI**
inability to use esters of pantothenic acid, 1942, 135: 267
- LACTOGENIC HORMONE**
crop-sac epithelium, 1938, 123: 614
liver arginase, 1943, 138: 447
maternal behavior, 1942, 137: 299
N.P.N. of blood, 1942, 137: 207
pancreatic insulin, 1942, 135: 407
racial factor in pigeon bioassay, 1939, 125: 722
response of pigeon crop-sac to, 1939, 127: 422
specificity of, 1947, 150: 398
urinary nitrogen, 1942, 137: 547
- LACTOSE**
fecal excretion of vitamins, 1950, 162: 131
- nutritive value of fats, 1947, 148: 47
survival on pure diet of, 1946, 147: 13
- LADD, LAURA: *see* INGRAM, W. R.
LADD, M. and RAISZ, L. G. Dietary sodium chloride in the dog, 1949, 159: 149
— *See* WESSON, L. G., JR.
LAHR, E. L. and RIDDLE, O. Proliferation of crop-sac epithelium, 1938, 123: 614
— *See* BATES, R. W.
— *See* RIDDLE, O.
LAIDLAW, A. E. and KENNARD, MARGARET A. Anesthesia and blood supply to hypothalamus, 1940, 129: 650
- LAKEN, B.: *see* RALLI, ELAINE P.
LALANNE, G. G.: *see* MONAHAN, E. P.
LALICH, J. J.: *see* COPLEY, A. L.
LAMAR, J. K., SHETTLES, L. B. and DELFS, ELEANOR. Penetration of cervical mucus by spermatozoa, 1940, 129: 234
- LAMBERT, E. F.: *see* BROOKS, C. McC.
LAMBERT, E. H.: *see* KEETON, R. W.
— *See* MITCHELL, H. H.
LAMBERT, G. F., MILLER, J. P. and FROST, D. V. Pyrogenic response to intravenous fat, 1951, 164: 490
- LAMPORT, H., HOFF, E. C. and HERRINGTON, L. P. Resistance of mice to acceleration, 1945, 143: 262
- LANARI, A. and LUCO, J. V. Depressant action of strychnine, 1939, 126: 277
— and ROSENBLUETH, A. Transmission in autonomic ganglia, 1939, 127: 347
— *See* ROSENBLUETH, A.
- LANATOSIDES
A, B, and C, blood electrolytes, 1942, 137: 8
C, cold resistance and, 1947, 151: 221
- LANDIS, E. M. Memoriam to William Townsend Porter, 1949, 158: v
—, JEFFERS, W. A. and SHIELDS, E. H. Pressor effects of heated kidney extracts, 1940, 128: 672
—, WOOD, J. E., JR. and GUERRANT, J. L. Vasoconstrictor action of shed blood, 1943, 139: 26
— *See* ABRAMS, M.
— *See* BROWN, ELLEN
— *See* KAPP, F.
— *See* SOBIN, S. S.
— *See* TOSTESON, D. C.
- LANDMESSER, C. M.: *see* ECKENHOFF, J. E.
LANDOWNE, M.: *see* KATZ, L. N.
LANDS, A. M., CUTTING, R. A. and LARSON, P. S. Distribution of massive infusions, 1940, 130: 421
— *See* CUTTING, R. A.
- LANDSTEINER, E. K. and HAYES, M. Blood temperature and heart rate, 1943, 140: 256
- LANDWEHR, GRETA: *see* ALEXANDER, B.
- LANGENDORFF HEART PREPARATION
acetylcholine, 1945, 144: 191
- LANGHAM, W. and GUSTAVSON, R. G. Thyroid activity and response to estrone, 1947, 150: 760
- LANGLEY, L. L., NIMS, L. F. and CLARKE, R. W. Stress reaction to hypoxia, 1950, 161: 331

- LANGLOIS, K. J. and GROSSMAN, M. I., Pylorotomy and gastric secretion, 1950, 163: 38
— See ROBERTSON, CHARLOTTE R.
- LANGWORTHY, O. R. and RICHTER, C. P., Increased activity produced by frontal lobe lesions, 1939, 126: 158
- LANZL, ELIZABETH F.: see QUASTLER, H.
- L.A.P.: see ANTERIOR PITUITARY HORMONES, lyophilized
- LAPAROTOMY
alkaline phosphatase, 1947, 149: 419
lymph flow, 1938, 122: 285
- LAPIDES, J.: see GESELL, R.
- LARAMORE, DOROTHY C. and GROLLMAN, A. Electrolyte pattern in hypertension, 1950, 161: 278
- LARD
choline and, erythrocyte count, 1944, 142: 214
nutritive value of, 1947, 148: 47
- LARDY, H. A. and PHILLIPS, P. H. Metabolism of ejaculated spermatozoa, 1943, 138: 741
— and PHILLIPS, P. H. Phospholipids as source of energy for spermatozoa, 1941, 134: 542
— and PHILLIPS, P. H. Sperm metabolism, 1941, 133: 602
— See PLAUT, G.W.E.
- LARRABEE, M. G. and HODES, R. Cyclic changes in the respiratory centers, 1948, 155: 147
— and KNOWLTON, G. C. Response of phenic motoneurons to inflation of lungs, 1946, 147: 90
— See BRONK, D. W.
— See HODES, R.
— See KNOWLTON, G. C.
— See PITTS, R. F.
- LARSEN, ELEANOR M. The fatigue of standing, 1947, 150: 109
— See HELLEBRANDT, FRANCES A.
- LARSON, P. S. Depression of serum potassium level by epinephrine, 1940, 130: 562
— See BREWER, G.
— See CUTTING, R. A.
— See LANDS, A. M.
- LASHER, E. P.: see GLENN, F.
- LASHLEY, K. S. and SPERRY, R. W. Olfactory discrimination after injury to thalamus, 1943, 139: 446
- LASLEY, J. F. and BOGART, R. Resistance of ejaculated and epididymal spermatozoa, 1944, 141: 619
- LASSEN, W. H.: see PERKINS, J. F., JR.
- LAST, J. H.: see KEETON, R. W.
— See PITESKY, ISADORE
- LATIMER, F.: see GARDNER, E.
- LATISSIMUS DORSI
oxygen consumption of, 1944, 142: 398
- LAUBER, FRANCES U.: see HOLLANDER, F.
- LAUNDRIE, BARBARA: see BENNETT, L. L.
- LAUSON, H. D. Gonadotropic content of hypophysis in puberty, 1939, 127: 629
—, GOLDEN, JUNE B. and SEVRINGHAUS, E. L. Gonadotropic content of hypophysis, 1939, 125: 396
— See HELLER, C. G.
— See ROOF, BETTY S.
- LAVAGE
intermittent peritoneal, hemodynamics, 1951, 165: 167
- LAVIETES, P. H.: see HALD, PAULINE M.
- LAWLESS, J. J. and VAN LIERE, E. J. Anoxic anoxia and water distribution in body, 1947, 149: 103
- LAWRENCE, J. H.: see TOBIAS, C. A.
- LAWRENCE, J. S., ERVIN, D. M. and WETRICH, R. M. Life cycle of white blood cells, 1945, 144: 284
— See ADAMS, W. S.
- LAWRENCE, M.: see WEVER, E. G.
- LAWROW, J. W.: see ADOLPH, E. F.
- LAWSON, F. L. Sulfanilamide and high altitude, 1942, 136: 494
- LAWSON, H. C. Deflation hyperemia in the intestine, 1941, 134: 147
— Estimation of residual bleeding volume, 1944, 141: 677
— Measurement of bleeding volume and blood substitutes, 1943, 140: 420
— and AMBROSE, A. M. Utilization of blood oxygen by distended intestine, 1942, 135: 650
— and CHUMLEY, J. Distention and intestinal blood flow, 1940, 131: 368
— and REHM, W. S. Cardiovascular damage by massive hemorrhage, 1945, 144: 206
— and REHM, W. S. Plasma and cells after hemorrhage and replacement, 1945, 144: 199
— and REHM, W. S. Replacement fluids after massive hemorrhage, 1945, 144: 217
— and REHM, W. S. Value of gelatin and other solutions after hemorrhage, 1943, 140: 431
—, OVERBEY, D. T., MOORE, J. C. and SHADLE, O. W. Mixing of cells, plasma and dye T-1824, 1947, 151: 282
—, OVERBEY, D. T., SHADLE, O. W. and MOORE, J. C. Dye and cell content of arterial blood, 1947, 151: 303
—, PORTER, R. C. and REHM, W. S. Bleeding volume in experimental shock, 1945, 144: 595
—, RAPPAPORT, DINA B. and RAMIREZ, A. Determination of total volume of blood cells, 1946, 147: 412
—, SHADLE, O. W., MOORE, J. C. and OVERBEY, D. T. Measurement of plasma volume, 1947, 151: 297
— See CLAY, H. L.
— See HOLT, J. P.
— See MOORE, J. C.
— See NAKAMURA, K.
— See OVERBEY, D. T.
- LAWTON, A. H.: see EMERY, F. E.
- LAWTON, R. W. and JOSLIN, D. Measurements on rat lung elasticity, 1951, 167: 111
- LAYNE, J. A.: see BERGH, G. S.
- LAYTON, A., MORGAN, M. W., JR. and OLMSTED, J. M. D. Eye changes from fluid injection into vitreous humor, 1947, 150: 568
- LAZARUS, M.: see BERLIN, N. I.
- LAZERE, B., THOMSON, J. D. and HINES, H. M. Glycogen metabolism of denervated muscle, 1943, 138: 357

- See HINES, H. M.
- LEAD POISONING
phosphocreatine, 1939, 126: 264
- LEÃO, A. A. P.: *see* DEL POZO, E. C.
- LEARNING
exposure to high oxygen pressures, 1945, 143: 209
- LEATH, MARTHA JEAN: *see* TIPTON, S. R.
- LEATHEM, J. H. Activity of gonadotropin in combination with zinc, 1945, 145: 28
- Androgen and plasma protein, 1948, 154: 459
- Antigonadotrophins in rabbits, 1947, 148: 700
- Equine gonadotropin in hypophysectomized rats, 1944, 140: 561
- Liver and high protein diet, 1951, 165: 73
- and DRILL, V. A. Stilbestrol, hypophysectomy and blood pressure in rat, 1943, 139: 17
- and SEELEY, R. D. Plasma and liver protein after thiouracil feeding, 1947, 149: 561
- *See* COLE, W. H.
- *See* LEVIN, L.
- *See* STARKEY, W. F.
- LEBLOND, C. P. and HOFF, H. E. Cardiac and metabolic actions of thyroid compounds, 1944, 141: 32
- and SÜE, P. Influence of hypophysis on iodine fixation in thyroid, 1941, 134: 549
- , GROSS, J., PEACOCK W. and EVANS, R. D. Radioactive iodine in study of thyroid metabolism, 1944, 140: 671
- *See* GRAD, B.
- LECITHIN
acetylcholine synthesis, 1947, 148: 422
- erythrocyte count, 1944, 142: 66
- gastric secretion, 1938, 122: 122
- of liver during cholesterol feeding, 1947, 149: 4
- LECOMTE, P. M. Return of vascular tone after sympathectomy, 1941, 135: 43
- LEE, D.: *see* RUSHMER, R. F.
- LEE, D. D.: *see* ADDIS, T.
- LEE, E. S., JR. Sensitivity of nictitating membrane to thyroxine, 1942, 135: 452
- LEE, NINA Z.: *see* LEE, R. E.
- LEE, R. C. Rectal temperature of the normal rabbit, 1939, 125: 521
- LEE, R. E. and LEE, NINA Z. Peripheral vascular system in scurvy, 1947, 149: 465
- and ZWEIFACH, B. W. Vasodepressor effects of morphine, 1949, 157: 259
- LEE, R. H., FINCH, E. M. and POUNDS, G. A. Periodic fluctuations in the dark adapted threshold, 1945, 143: 6
- LEE, Y. C. P., KING, J. T. and VISSCHER, M. B. Caloric intake and fertility in C₃H-male mice, 1951, 167: 375
- LEEDS, S. E. Effects of repair of patent ductus arteriosus, 1943, 139: 451
- , MACKAY, E. S. and MOOSLIN, K. Fibrillation and shock, 1951, 165: 179
- LEEK, J. H.: *see* BAKER, B. L.
- LEES, W. M.: *see* MULLIN, F. J.
- LEG
adrenaline and metabolism of, 1939, 125: 702; 1947, 149: 64
- chemoflexor vascular reactions in, 1945, 143: 365
- glucose, adrenalin and metabolism of, 1949, 157: 205
- pathology following tourniquet shock, 1945, 144: 498
- volume, vascular resistance in hemorrhagic shock, 1946, 147: 690
- work performance in, during walking, 1939, 125: 348
- LEHMAN, J. H.: *see* GREEN, D. M.
- LEHMANN, A. L. and REINECKE, R. M., Graded pressures, 1949, 158: 113
- and REINECKE, R. M. Swelling following ischemia, 1950, 162: 226
- LEHMANN, G. Gastric cardiospasm, 1945, 143: 163
- LEHMANN, W.: *see* SOSKIN, S.
- LEICHSENRING, JANE M., DONELSON, EVA G. and WALL, LUCILLE M. Variations in red blood cell diameter, 1944, 141: 270
- *See* DONELSON, EVA G.
- LEIMDORFER, A. and METZNER, W. R. T., Epinephrine anesthesia, 1949, 157: 116
- , ARANA, R. and HACK, M. H. Central hyperglycemic action of adrenaline, 1947, 150: 588
- LEIN, A.: *see* GRODINS, F. S.
- *See* WHITEHORN, W. V.
- LEIN, J. and LEIN, PATRICIA S. Altered prothrombin from dicumarol, 1948, 155: 394
- LEIN, MARILYN: *see* ALBANESE, A. A.
- LEIN, PATRICIA S.: *see* LEIN, J.
- LEITER, S. S.: *see* NETSKY, M. G.
- LEMLEY, JANET M.: *see* RODES, N. D.
- LEMMER, K. E.: *see* MAISON, G. L.
- LENDRUM, BESSIE, KONDO, B. and KATZ, L. N. Thebesian drainage in dynamics of coronary flow, 1945, 143: 243
- *See* MEYER, JULIA
- *See* WISE, W.
- LENEL, R., KATZ, L. N. and RODBARD, S. Arterial hypertension in the chicken, 1948, 152: 557
- , VAN LOO, A., RODBARD, S. and KATZ, L. N. Paroxysmal tachycardia, 1948, 153: 553
- *See* LEVINE, R.
- LENS
capsule, parathyroid hormone and permeability of, 1939, 126: 139
- opacity due to adrenaline, 1940, 130: 543
- LENS CAPSULE: *see* LENS
- LEO, S. D., PRINZMETAL, M. and LEWIS, H. A. Pressor substance produced by renal ischemia, 1940, 131: 18
- LEONARD, S. L.: *see* ALLISON, J. B.
- LEONARD, W. E. and BROOKS, C. McC. Micturition volume in the rat, 1943, 139: 532
- LEONARDS, J. R. and HEISLER, C. R. Artificial kidney, 1951, 167: 553
- LEPAGE, G. A. Energy transformations during shock, 1946, 146: 267
- Hemorrhage and tissue metabolites, 1946, 147: 446

- LEPKOVSKY, S., BORSON, H. J., BOUTHILET, R., PENCHARZ, R. I., SINGMAN, D., DIMICK, M. K. and ROBBINS, R. Intrauterine injury and B_{12} , 1951, 165: 79
 — See BORSON, H. J.
 — See CHERNICK, S. S.
 — See OKEY, RUTH
- LERMAN, L. S.: see VAN HARREVELD, A.
- LESLIE, S. H.: see RALLI, ELAINE P.
- LEUCINE
 acetylcholine synthesis, excitation, 1946, 147: 384
 renal clearance of, 1946, 146: 330
 renal reabsorption of, 1946, 145: 494
- LEUCOPTERIN
 bone marrow cells, 1948, 153: 497
 bone marrow cultures, 1948, 152: 654
 cell proliferation, 1948, 153: 490
- LEUKEMIA
 serum from, bone marrow cultures, 1948, 153: 483
- LEUKEMIC TISSUE: see TISSUE, leukemic
- LEUKOCYTE COUNT
 benzene poisoning, on protein deficient diets, 1945, 145: 170
 decompression stress, 1951, 164: 756
 differential, vitamin B_6 , 1945, 144: 353
 error with hemocytometer, 1940, 128: 317
 fat and protein of the diet, 1945, 145: 162
 fibrinolysin, 1947, 150: 475
 repeated injections of various materials, 1951, 165: 559
 starvation, recovery, 1947, 151: 526
- LEUKOCYTES
 adrenals, spleen, 1950, 160: 77
 anesthesia, and 1948, 152: 7
 avitaminosis A, 1938, 122: 589
 behavior during transient leukopenia, 1949, 158: 396
 chloride of, 1938, 122: 228
 distribution ratio of lactic acid between, and serum, 1942, 138: 8
 estrogens and x-ray injury to, 1949, 159: 271
 evisceration, 1950, 160: 248
 from peritoneal exudates, oxygen consumption of, 1938, 123: 420
 gravity shock, 1944, 141: 166
 hypercapnia, 1940, 129: 526
 in peripheral blood, 1950, 162: 712
 life cycle of, 1945, 144: 284
 life span of, 1951, 165: 341
 permeability of, 1947, 148: 708
 to water, sodium, potassium, 1947, 149: 340
 plasma factor increasing number, 1950, 161: 14
 potassium arsenite and metabolism of, 1943, 139: 720
 sodium deficiency, 1951, 166: 524
 typhoid vaccine, 1948, 153: 148
 variability in women, 1943, 138: 627
 vitamin B_{12} deficiency, 1950, 162: 716
 volume, determination of, 1942, 137: 447
- LEUKOCYTOSIS
 neutrophilic, in cross circulation studies, 1945, 144: 285
 parenteral liver extract, 1939, 127: 58
- LEUKOPENIA
 due to benzene, 1945, 145: 162
 fibrinolysin, 1947, 150: 475
 irradiation, 1945, 144: 284
 radioactive colloids, 1951, 166: 323
 xanthopterin, 1948, 153: 136
 factor for, obtained from inflammatory tissue, 1951, 165: 554
 output of lymphocytes in thoracic duct during, 1945, 144: 302
 transient in rabbit, 1949, 158: 396
- LEUKOTAXINE
 adrenocortical hormone and production of exudates, 1940, 129: 690
 capillary permeability, 1941, 134: 258
 physiological, 1938, 124: 524
- LEVEEN, H. H. and FISHMAN, W. H. Combination of dye and plasma protein, 1947, 151: 26
- LEVENE, J. M.: see DERN, R. J.
- LEVENSTEIN, I.: see SHEDLOVSKY, L.
- LEVERTON, RUTH M.: see OLSON, MARGARET A.
- LEVEY, S. Ascorbic acid and cobalt polycythemia, 1949, 158: 315
- LEVIN, J.: see GELLHORN, E.
- LEVIN, L. Food and composition of tissues after hypophysectomy, 1944, 141: 143
 — Serum albumin metabolism in the rat, 1943, 138: 258
 — and LEATHEM, J. H. Serum albumin and globulin levels, 1942, 136: 306
 —, LEATHEM, J. H. and CRAFTS, R. C. Adrenals and serum protein levels in cat, 1942, 136: 776
 — See TYNDALE, H. H.
- LEVIN, M.: see GESELL, R.
- LEVIN, P. M. Sympathetics and spinal shock of urinary bladder, 1938, 122: 62
- LEVINE, H., NAHUM, L. H., GELLER, H. M. and SIKAND, R. S. Electrocardiographic pattern of digitalis, 1951, 167: 726
- LEVINE, H. D., HELLEMS, H. K., DOW, J. W. and GOWDEY, J. F. Displacement of cardiac pacemaker, 1949, 156: 19
- LEVINE, R., GOLDSTEIN, M. S., HUDDLESTON, B. and KLEIN, S. P. Insulin and effect of galactose, 1950, 163: 70
 —, GOODFRIEND, J. and SOSKIN, S. Fibrillation and atrophy of denervated muscle, 1942, 135: 747
 —, HECHTER, O. and SOSKIN, S. Biochemistry of denervated muscle, 1941, 132: 336
 —, HUDDLESTON, B., PERSKY, H. and SOSKIN, S. Whole blood plus NaHCO_3 and glucose in hemorrhagic shock, 1944, 141: 209
 —, LOUBE, S. D. and WEISBERG, H. F. Insulin and serum inorganic phosphate, 1949, 159: 107
 —, SIMKIN, B. and CUNNINGHAM, W. Insulin sensitivity of adrenalectomized rat, 1949, 159: 111
 —, WOLFSON, W. Q. and LENEL, R. Plasma urate in azotemic chicken, 1947, 151: 186
 — See COHN, C.
 — See FRITZ, I.
 — See GOLDSTEIN, M. S.
 — See RAMEY, E. R.

- See SOSKIN, S.
 — See WEISBERG, H. F.
 LEVINSKY, N. G.: *see* SAWYER, W. H.
 LEVINSON, J. P. and ESSEX, H. E. Denervation and vascular responses to drugs, 1943, 139: 423
 LEVINSON, S. O.: *see* ARIMOTO, F.
 — See GUTMANN, H.
 — See WESTON, R. E.
 LEVITAN, B. A. Vitamin P and connective tissue, 1949, 157: 422
 LEVITCH, M.: *see* GROLLMAN, A.
 LEVITT, M. F. and GAUDINO, M. Intracellular cation concentrations, 1949, 159: 67
 — See GAUDINO, M.
 LEVY, M. N. and BERNE, R. M. Cardiac output and sodium excretion, 1951, 166: 262
 — See WIGGERS, C. J.
 LEVY, S. E. and BLALOCK, A. Renal function after unilateral nephrectomy, 1938, 122: 609
 —, LIGHT, R. A. and BLALOCK, A. Metabolism of kidney in renal hypertension, 1938, 122: 38
 —, ROBINSON, C. S. and BLALOCK, A. Blood flow and pressure in transplanted kidney, 1938, 123: 383
 — See DIAZ, J. T.
 LEW, W.: *see* ADDIS, T.
 — See YUEN, D. W.
 LEWIS, A. E. Hepatic clearance, 1950, 163: 54
 LEWIS, E. G.: *see* COREY, E. L.
 LEWIS, G. T.: *see* BEVAN, W., JR.
 LEWIS, GLADYS K.: *see* OHLSON, MARGARET A.
 LEWIS, H. A.: *see* LEO, S. D.
 LEWIS, JESSICA H. and FERGUSON, J. H. Profibrinolysin and staphylokinase, 1951, 166: 594
 LEWIS, L. J. and BROOKHART, J. M. Crossed phrenic phenomenon, 1951, 166: 241
 LEWIS, LENA A. and PAGE, I. H. Leucocytes and typhoid vaccine, 1948, 153: 148
 —, PAGE, I. H. and GLASSER, O. Plasma proteins, 1950, 161: 101
 —, PAGE, I. H. and REINHARD, J. J., JR. Plasma protein after hepatectomy, 1949, 159: 73
 — See PAGE, I. H.
 LEWIS, R. A.: *see* THORN, G. W.
 LEWIS, R. C., DUVAL, ANNA M. and ILIFF, ALBERTA. Basal metabolism of children, 1944, 140: 461
 LEWIS, R. N., WERLE, J. M. and WIGGERS, C. J. Behavior of spleen in vascular shock, 1943, 138: 205
 — See GREEN, H. D.
 LEWIS, W. H., JR. Changes with age in basal metabolism in adult men, 1938, 121: 502
 — Changes with age in blood pressure in adult men, 1938, 122: 491
 — Changes with age in cardiac output in adult men, 1938, 121: 517
 — and ALVING, A. S. Changes in renal function with age, 1938, 123: 500
 LI, C. H. and HERRING, V. V. Adrenal cortex and survival during anoxia, 1945, 143: 548
 — See ANDERSON, EVELYN
 — See BENNETT, L. L.
 — See INGLE, D. J.
 — See VAN DYNE, D. C.
 LI, M.-C.: *see* PERKINS, J. F., JR.
 LI, T. H.: *see* AVIADO, D. M., JR.
 LI, T-W., and FREEMAN, S. Benzene toxicity and protein and fat content of diet, 1945, 145: 158
 — and FREEMAN, S. Exogenous fat in fatty infiltration of liver, 1946, 145: 667
 — and FREEMAN, S. Experimental lipemia and hypercholesterolemia, 1946, 145: 660
 — and FREEMAN, S. Liver in protein deficiency and cholesterol feeding, 1946, 145: 646
 — and FREEMAN, S. Methionine and toxicity of benzene for rats, 1947, 148: 358
 —, FREEMAN, S., HOUGH, V. H. and GUNN, F. D. Protein-deficient diet and benzene poisoning, 1945, 145: 166
 — See HOUGH, V. H.
 LIBET, B., FAZEKAS, J. F. and HIMWICH, H. E. Response of brain to anemia and analeptics, 1941, 132: 232
 — See SAMUELS, A. J.
 LIBORO, O.: *see* RHOADS, J. E.
 LICHTENSTEIN, H.: *see* MACKTER, B.
 LICHTMAN, S. S. Bile acids of blood and urine after liver injury, 1938, 124: 94
 LIEBOW, A. A.: *see* BLOOMER, W. E.
 LIEBOW, I. M.: *see* ECKSTEIN, R. W.
 — See HELLERSTEIN, H. K.
 LIFSON, N. Intestinal absorption of chlorides, 1940, 128: 603
 —, OMACHI, AKIRA and CAVERT, H. M. Metabolism of acetate, 1951, 166: 121
 — See JOHNSON, J. A.
 — See LORBER, V.
 — See VISSCHER, M. B.
 LIGAMENTUM NUCHAE
 comparison of Young's modulus for, 1939, 125: 3
 LIGHT
 intensity discrimination, as affected by anoxia, 1944, 142: 334
 monochromatic, and pupil diameter, 1942, 137: 769
 spontaneous activity in rats, 1944, 142: 633
 uptake of water by frogs, 1938, 122: 194
 visible colored, effects of, 1942, 137: 764
 LIGHT ADAPTATION
 at the fovea, 1938, 121: 454
 in normal individuals, 1945, 143: 541
 LIGHT REFLEX: *see* PUPILLARY CONSTRICTOR REFLEX
 LIGHT THRESHOLD
 electric threshold, 1947, 148: 378
 hypoglycemia and relation between, and intensity, 1945, 145: 307
 LIGHT, R. A.: *see* LEVY, S. E.
 LIGON, E. W., JR.: *see* QUIGLEY, J. P.
 — See WERLE, J. M.
 LILIENTHAL, J. L., JR. and FUGITT, C. H. Altitude tolerance and carboxyhemoglobin, 1946, 145: 359
 — and PINE, MARY B. Oxygen pressure and uptake of carbon monoxide, 1946, 145: 346
 —, RILEY, R. L. and PROEMMEL, D. D. Arterial

- oxyhemoglobin at critical altitudes, 1946, 145: 427
- , RILEY, R. L., PROEMMEL, and FRANKE, R. E. O₂ pressure gradient from alveolar air to arterial blood, 1946, 147: 199
- , RILEY, R. L., PROEMMEL, D. D. and FRANKE, R. E. Relation of CO, O₂ and hemoglobin at altitude, 1946, 145: 351
- See EYZAGUIRRE, C.
- See FOLK, B. P.
- See JARCHO, L. W.
- See RILEY, R. L.
- See ZIERLER, K. L.
- LILING, MILDRED and GAUNT, R. Acquired resistance to water intoxication, 1945, 144: 571
- LILLEHEI, C. W.: see HEMINGWAY, A.
- LILLIE, R.: see GESELL, R.
- LILLIE, R. D.: see Rosenthal, S. M.
- LILLY, J. C. Measurement of gases in respiration, 1950, 161: 342
- LIMBS
- method of controlling hemodynamics of blood supply, 1951, 166: 46
- reflexes influencing hyperpnea of exercise, 1943, 138: 536
- regeneration and nerve activity in newt, 1951, 165: 237
- LIMULUS
- acetylcholine, 1942, 136: 182
- x-ray injury and oxygen consumption of heart, 1938, 122: 406
- LINDEMAN, V. F. Acetylcholine and cholinesterase in chick retina, 1947, 148: 40
- Cholinesterase activity of vertebrate nervous system, 1945, 143: 687
- Oxygen consumption of vertebrate retina, 1943, 139: 9
- LINDGREN, A. J.: see HANLEY, H. F.
- LINDLEY, J. E.: see GUYTON, A. C.
- LINDNER, E. and KATZ, L. N. Conductivity of tissues in contact with heart, 1939, 125: 625
- and KATZ, L. N. Papaverine hydrochloride and ventricular fibrillation, 1941, 133: 155
- See FREED, S. C.
- See KATZ, L. N.
- LINDNER, ERNA: see ANDERSON, EVELYN
- LINDSAY, W. K.: see BIGELOW, W. G.
- LINDSKOG, G. E. and GILMAN, A. Artery ligation and lung histamine content, 1948, 152: 417
- See BLOOMER, W. E.
- LINEGAR, C. R. Ergotamine and hemodynamic action of acetylcholine, 1940, 129: 53
- See KOPPANYI, T.
- LINGUAL NERVES
- resection and water drinking, 1939, 126: 16
- LINGUO-MAXILLARY REFLEX
- anti-anoxic effect of riboflavin on, 1944, 141: 179
- studies on, 1943, 139: 417
- LINK, K. P.: see FIELD, J. B.
- LINTON, N. A., JR.: see WOLLENBERGER, A.
- LION
- prothrombin concentration in blood, 1941, 132: 242
- See page iii for guide to use of index
- LIPASE
- absorption of carotene, 1941, 132: 206
- diet, 1944, 141: 39
- in ileal secretion, 1939, 128: 75
- in jejunal secretion, 1939, 128: 74
- of serum, colorimetric determination of, 1949, 159: 337; 1951, 164: 486
- hemorrhagic pancreatitis and, 1951, 166: 413
- in human subjects, 1949, 159: 30
- thyroidectomy, 1950, 162: 289
- total pancreatectomy and, 1951, 164: 486
- pancreatic, coffee extract, 1943, 139: 343
- diet, 1943, 138: 676
- hexyl resorcinol, ammonium thiocyanate, 1942, 135: 335
- stimulants, 1944, 141: 510
- LIPEMIA: see LIPIDS, of blood
- LIPEMIC COEFFICIENT
- formula for, 1946, 145: 662
- LIPIDS
- absorbed, transportation of, 1941, 134: 773
- in mitochondria during regeneration, 1949, 157: 139
- metabolism, anemia during cholesterol feeding, 1947, 149: 1
- in chicken, 1951, 165: 600
- of blood, blood changes due to, 1951, 164: 798
- dietary origin, 1938, 123: 558
- estrogens, 1951, 165: 600
- increased experimental production of, 1946, 145: 660
- pancreas, 1940, 129: 578; 1943, 138: 352
- sex hormones and concentrations in, 1938, 122: 73
- of blood and liver, lipocaic, 1939, 127: 755
- of liver, after ligation of pancreatic ducts, 1938, 122: 43
- during regeneration, 1949, 157: 138
- lipotropic action of lipocaic and, 1946, 147: 348
- of lymph, after fat feeding, 1950, 163: 41
- of serum, 1941, 133: 566
- thyroid, 1948, 152: 104
- sex hormones and tissue concentration, 1938, 122: 73
- see also FAT
- LIPIODOL
- absorption from obstructed gall bladder, 1940, 129: 705
- LIPOCAIC
- antagonism to anterior pituitary, 1943, 138: 264
- blood and liver lipids in depancreatized dogs, 1939, 127: 755
- bromsulphalein liver test in assay of, 1938, 124: 642
- comparison with Dragstedt's pancreatic extract, 1949, 156: 387
- lipotropic action of, 1945, 144: 621; 1946, 147: 346
- pancreatic diabetes, 1941, 135: 133
- prevention of fatty liver after depancreatization, 1944, 141: 223
- LIPID GLAND: see BROWN ADIPOSE TISSUE
- LIPOTROPIC ACTIVITY
- of lipocaic and methionone, 1945, 144: 620
- of pancreas preparations, 1951, 166: 433; 1951, 166: 436
- of pancreatic fraction, properties of, 1951, 166: 441

- of various components of pancreatic extracts, 1946, 147: 346
- LIPOTROPIC FACTORS**
 derived from pancreas, 1949, 156: 387
 of pancreas, 1944, 141: 216
- LIPPMAN, R. W.** Clearances as tests of renal function, 152: 27
- Creatinine clearance, 1947, 151: 211
- Inulin clearance in the rat, 1948, 155: 282
- Mechanism of proteinuria, 1948, 154: 532
- *See* ADDIS, T.
- LIPSCHITZ, W. L.** and **STOKEY, E.** Antidiuresis in the dog and the rat, 1947, 148: 259
- LIPSCOMB, A.** and **CRANDALL, L. A., JR.** Hepatic blood flow and glucose output, 1947, 148: 302
- *See* CRANDALL, L. A., JR.
- LIPTON, E. L., DENISON, A. B.** and **GREEN, H. D.** Body temperature in ischemic compression shock, 1947, 150: 693
- LIPTON, M. A.:** *see* AXELROD, A. E.
- LIQUAEMIN:** *see* HEPARIN
- LISCHER, C. E., ELMAN, R.** and **DAVEY, HARRIET W.** Regeneration of plasma proteins after hemorrhage, 1943, 139: 638
- *See* ELMAN, R.
- LISSÁK, K.** Acetylcholine and adrenaline from isolated nerves, 1939, 127: 263
- Calcium and output of sympathin in frog heart, 1938, 123: 256
- Effects of adrenergic fiber extracts on frog heart, 1939, 125: 778
- Piperidinomethylbenzodioxane (933F) and sympathin, 1938, 124: 62
- and **HODES, B. R.** Sympathetic nervous system and anaphylactic shock, 1938, 124: 637
- , **DEMPSEY, E. W.** and **ROSENBLUETH, A.** Transmission in Wallerian degeneration, 1939, 128: 45
- *See* CANNON, W. B.
- *See* LUCO, J. V.
- *See* MORISON, R. S.
- *See* ROSENBLUETH, A.
- LITHIASIS**
 citrate, 1951, 167: 698
- LITHIUM**
 distribution of parenterally administered, 1950, 163: 633
- excretion and distribution of, 1951, 166: 202
- inhibition of spermatozoa by, 1949, 157: 177
- of plasma, 1950, 163: 633
- respiration of brain cortex, 1942, 135: 313
- LITHIUM CHLORIDE:** *see* CHLORIDES
- LITHOSPERMUM RUDERALE**
 action of, 1951, 167: 379
- LITT, IRENE C.:** *see* WESCOE, W. C.
- LITTLE, J. M.** Cholinesterase in brain, 1948, 153: 436; 1948, 155: 60
- and **BENNETT, W. C.** Acetylcholine hydrolysis by frog sartorius muscle, 1940, 130: 281
- and **DAMERON, J. T.** Diminished plasma volume and intravenous gelatin, 1944, 140: 636
- and **DAMERON, J. T.** Disappearance of intravenous gelatin in normal animals, 1943, 139: 438
- and **ROBINSON, C. S.** Transportation of absorbed lipids, 1941, 134: 773
- and **WELLS, H. S.** Capillary permeability to gelatine, 1943, 138: 495
- , **GREEN, H. D.** and **BUMGARDNER, J. I.** Depressor substance in urine, 1948, 155: 345
- , **GREEN, H. D.** and **HAWKINS, J. E., JR.** Urine flow and ischemic shock, 1947, 151: 554
- , **WALLACE, S. L., WHATLEY, E. C.** and **ANDERSON, G. A.** Pitressin and excretion of chloride and water, 1947, 151: 174
- *See* BRIDGER, C. E.
- *See* GREEN, H. D.
- *See* NICHOLS, J.
- LITTLE, R. C.** Atrial systole effect on ventricular pressure, 1951, 166: 289
- Elastic properties of the atria, 1949, 158: 237
- , **OPDYKE, D. F.** and **HAWLEY, J. G.** Atrial septal defects, 1949, 158: 241
- *See* OPDYKE, D. F.
- LIU, T. Y.:** *see* BROWNELL, KATHARINE A.
- LIVER**
 arterio-venous anastomoses in, 1948, 152: 48
- biological action of thyroxine, 1950, 162: 20
- blood coagulation, 1951, 164: 111
- blood flow, bile formation, 1938, 121: 61
- glucose output, 1947, 148: 306; 1947, 148: 314
- blood plasma proteins, 1943, 139: 556
- chloride space and extracellular space of, 1939, 126: 403
- damage, bile acids, 1938, 124: 94
- biliary excretion in, 1951, 165: 680
- blood pressure and vasoconstrictor response to renin, 1941, 135: 220
- due to potassium deficiency, 1945, 147: 292
- plasma esterase, 1947, 149: 614
- experimental hyperchromic anemia, 1944, 142: 405
- experimental polycythemia, 1938, 122: 397
- extirpation, glucose utilization in diabetic rabbits, 1940, 130: 249
- functional hepatectomy in fowl, 1951, 165: 588
- hemorrhagic hypotension, 1948, 155: 106
- high protein diet, 1951, 165: 73
- hormones, 1938, 122: 169; 1938, 122: 296
- impaired circulation and plasma amino acids, 1949, 159: 357
- irradiation of, 1951, 164: 554
- lymph, composition of, 1941, 133: 80
- pressure in, bile resorption, 1944, 141: 481
- protein constituents of lymph, 1951, 164: 119
- reactions to cooling and heating of body, 1942, 137: 34
- serum amylase and pathological changes in, 1938, 124: 151
- shock from parasitic extracts, 1947, 148: 248
- sinusoid pressure and portal pressure, 1951, 165: 527
- size during pregnancy and lactation, 1942, 137: 513
- sphincter mechanism of, 1941, 132: 713
- thiouracil, 1947, 149: 564
- vascular and volume changes in perfused, 1938, 124: 648
- vascular reactivity, 1950, 160: 421

LIVER

- venous circulation of, 1949, 158: 303
- vitamin A and D stores, 1947, 149: 328
- weight, androgens, 1948, 153: 210; 1948, 154: 461
- B-complex deficiency, 1950, 161: 517
- thiouracil, 1947, 149: 563
- thyroxin, anterior pituitary hormones, 1942, 135: 398
- zinc feeding, 1938, 121: 253

LIVER CONSTITUENTS

- adrenergic substances in, 1947, 148: 473
- alkaline phosphatase of, 1950, 163: 653
- amide nitrogen, following burns, 1945, 144: 666
- amino nitrogen, following burns, 1945, 144: 666
- ammonia nitrogen, following burns, 1945, 144: 666
- arginase and phosphatase of, 1948, 153: 210
- chloride of, 1938, 122: 228; 1940, 129: 600
- cholinesterase in, 1947, 148: 677
 - in mitochondria, 1951, 165: 620
- choline oxidase in, 1938, 121: 55
- depot for potassium, 1939, 127: 361
- electrolytes in, K-depletion, 1939, 127: 385
- enterocrinin in, 1938, 121: 483
- enzymes of, diet, 1948, 154: 489
 - estrogens, 1947, 151: 126
 - hormones, 1948, 155: 262
 - thyroid and adrenalectomy, 1946, 145: 695
- esterase, chloroform anesthesia, 1938, 124: 149
- plasma esterase, 1947, 149: 614
- estradiol distribution after injection, 1951, 165: 672
- exchange of radioactive and body potassium, 1941, 135: 152
- fat, insulin, pituitary extracts, 1946, 147: 742
 - sex hormones, 1938, 122: 73
- glutathione levels in, 1951, 165: 571
- hemoglobin production factor in, 1939, 126: 142
- heparin of, 1939, 125: 104
- histaminase of, 1940, 129: 222; 1946, 146: 58
- histamine of, 1938, 124: 415; 1941, 131: 591; 1951, 167: 272
- infused chlorides in extracellular space of, 1940, 130: 427
- ions and water of, 1950, 160: 98
- iron storage and x-irradiation, 1951, 166: 384
- lipids, cholesterol feeding, 1947, 149: 4
 - lipocaic, 1939, 127: 755
 - loss of pancreatic juice, 1943, 138: 352
 - pancreas, 1940, 129: 581
- nitrogen of, 1938, 121: 239
- phosphatases, adrenal hormones, 1947, 150: 584
- potassium in, 1951, 167: 515
- protein of, 1940, 128: 545
 - dietary protein, 1947, 151: 399
 - testosterone, 1951, 165: 75
- protein of heart, kidney, 1940, 129: 687
- radioactive chlorine in, 1941, 134: 86
- radioactive colloidal gold in, 1951, 164: 830
- radioactive iodine in, 1941, 132: 348
- radioactive potassium in, 1941, 132: 482
- regenerating, composition of, 1949, 157: 135
- riboflavin of, 1947, 149: 259
 - and B₆ potency of, 1945, 144: 76

shock, 1947, 149: 373

sodium of, 1939, 127: 368

 amino N in hemorrhagic shock, 1946, 147: 175

 potassium of, 1950, 162: 186

thiamin of, 1938, 122: 487; 1947, 149: 257

thiourea of, 1945, 143: 719

uptake of radioactive bromine by, 1941, 134: 109

vitamin A stores in, 1945, 143: 450

water of, 1938, 121: 381; 1942, 135: 434

 B complex deficiency, 1944, 141: 85

 diet, exercise, 1940, 128: 539

 electrolyte distribution in, 1949, 159: 61

 electrolytes in, hemorrhagic shock, 1945, 145: 33

 fat, and electrolyte content, 1950, 161: 279

 in intoxication, 1942, 136: 45

weight and composition of, 1944, 141: 147

zinc of, 1938, 121: 256; 1938, 124: 753

LIVER FUNCTION

 assay of lipocaic, 1938, 124: 642

 bromsulphalein test, 1949, 156: 229

 choline, cystine, 1943, 139: 642

 circulation, 1949, 159: 351

 clearance as measure of, 1950, 163: 54

 critique of measurement with BSP removal, 1947, 150: 302

 estimation of mass, 1948, 152: 42

 hyperthyroidism, 1942, 136: 762; 1943, 138: 370

 hypothermia, 1949, 159: 365

 low protein diet, 1942, 138: 184

 measured by clearance technique, 1950, 163: 54

 protein deficient diet, 1946, 145: 654

 removal of BSP from blood, 1948, 155: 286

LIVER METABOLISM

 acetone body production, 1940, 131: 10

 acetylcholine synthesis, 1947, 148: 418

 adrenal extracts and in vitro, 1939, 127: 713

 alloxan and gluconeogenesis from lactic acid, 1950, 160: 107

 anaerobic glycolysis, 1946, 147: 509

 anoxia and oxygen consumption, in vitro, 1945, 144: 669

 arsenite, 1945, 143: 640

 blood level of pyruvate, lactate, and glucose, 1947, 148: 324

 carbon dioxide production at high oxygen tension, 1947, 148: 499

 cholesterol production, 1951, 164: 790

 creatinine-creatinine metabolism, 1938, 124: 530

 energy transformations, during shock, 1946, 146: 271

 enzymatic conversion of cyanide to thiocyanate, 1948, 153: 351

 estrogens, 1938, 122: 113

 formation of alkaline phosphatase, 1949, 156: 256

 of plasma phospholipides, 1951, 165: 596

 glucose and lactic acid exchange, 1939, 127: 686

 glucose output as affected by insulin and glycine, 1939, 125: 658

 glucose-lactic acid cycle, 1939, 125: 43

 glycogenolysis in after death, 1951, 165: 629

 hemorrhage, 1946, 147: 446

 hemorrhagic shock, 1945, 144: 674

 in vitro effect of insulin, 1945, 144: 53

- insulin and, phosphate changes, 1944, 140: 600
 insulin inactivation by, 1949, 158: 332
 lipide metabolism, 1951, 165: 600
 methylene blue, indigosulfonate, 1938, 122: 404
 of acetaldehyde, 1949, 157: 184
 of estrogen, 1950, 160: 41
 of methanol, 1950, 163: 617
 of progesterone, 1944, 142: 327
 output of urea nitrogen and glucose, 1947, 148: 306
 oxidation of choline in, 1938, 121: 55
 of ethyl alcohol, 1939, 127: 308
 oxygen consumption, 1938, 124: 648; 1941, 132: 76;
 1945, 144: 88
 acute hypothermia, 1947, 149: 555
 in various media, 1939, 127: 297
 nitrogen content and, following burns, 1945,
 144: 661
 optimum pH for, 1939, 127: 292
 pH, 1941, 132: 566
 quinidine, 1942, 136: 386
 x-ray injury, on, 1938, 122: 406
 perfused, uptake and output of substances by, 1938,
 124: 704
 phosphorus turnover in, 1942, 138: 176
 potassium arsenite, 1943, 139: 720
 potassium deficiency, 1951, 167: 319
 protein anabolism in, 1940, 129: 687
 regeneration of serum cholinesterase, 1947, 149: 550
 regulation of blood sugar by, 1938, 124: 558
 repayment of oxygen debt in, 1939, 127: 285
 respiration of, serum proteins, 1942, 135: 317
 thyroid, adrenalectomy, 1946, 145: 695
 respiratory quotient of, 1938, 122: 113
 hormones, 1938, 122: 169; 1938, 122: 296
 retention of lactic acid, 1941, 132: 679
 slices, adrenal cortical hormone and synthesis of
 carbohydrate, 1941, 135: 178
 anoxia, feeding, 1946, 147: 181
 changes in potassium and sodium concentration
 during incubation, 1950, 163: 598
 in lymph from burned areas, 1944, 142: 288
 oxygen consumption and glucose exchange in
 fever, 1951, 166: 113
 reaction with T-1824 albumin, 1951, 164: 123
 salicylates, 1951, 164: 727
 sodium turnover in, 1951, 167: 335
 survival in oncometer, 1938, 124: 647
 testosterone and estrogens, 1948, 155: 266
 thiouracil, 1944, 141: 93
 thyroxin and phospholipid turnover, 1948, 155: 402
 urea synthesis during hemorrhagic shock, 1946,
 147: 173
 uric acid and allantoin metabolism, 1947, 150: 679
 utilization of glucose and lactate after hemorrhagic
 shock, 1945, 144: 233
- LIVER, ADMINISTRATION OF**
 blood building, 1941, 134: 746
 extract, blood cholinesterase activity, 1948, 152: 309
 experimental hyperchromic anemia, 1944, 142: 405
 experimental polycythemia, 1939, 127: 322
 gastric secretion, 1943, 139: 325
 in renal hypertension, 1940, 130: 570
 leukocytosis after parenteral administration, 1939,
 127: 58
 mitosis in liver, 1945, 143: 228
 recovery from starvation, 1951, 166: 566
 regeneration of liver, 1948, 152: 460
 solubilized, riboflavin and B₆ potency of tissues,
 1945, 144: 76
- LIVER, BLOOD FLOW: see HEPATIC BLOOD FLOW**
- LIVER, FATTY**
 dietary factors, 1946, 145: 656
 exogenous fat and formation of, 1946, 145: 671
 lipid of bile, 1951, 164: 280
 lipocaic, 1944, 141: 223; 1946, 147: 351
 liver function, 1946, 145: 655
 methionine or lipocaic prevention, 1945, 144: 624
 pancreas, 1938, 122: 67
 pancreatic juice, 1947, 148: 240
 pancreatic-duct ligation, 1951, 165: 628
 pituitary extracts, 1940, 131: 27
 prevention by lipotropic factors from pancreas,
 1949, 156: 387
 protein deficiency, cholesterol feeding, 1946, 145:
 662
 protein feeding, 1942, 138: 42
- LIVER, REGENERATION**
 adrenal cortex, 1950, 163: 354
 bile duct obstruction, 1949, 159: 343
 composition of, 1949, 157: 135
 diet, 1948, 152: 460; 1949, 157: 221
 composition, 1948, 152: 11
 dietary fat, 1950, 163: 347
 dietary protein, 1947, 151: 391
 mitosis in, 1945, 143: 226
 nitrogen metabolism during, 1947, 151: 391
 rate and nucleic acid supplements, 1951, 164: 251
 thiouracil, 1948, 153: 397
 thyroxin, 1949, 157: 225
- LIVER, REMOVAL OF: see HEPATECTOMY**
- LIVINGSTON, R. B.: see GELFAN, S.**
- LIVINGSTONE, CONSTANCE A.: see FRIEDMAN, S. M.**
- LIZARD**
 oxygen consumption, respiration rate and body
 temperature, 1951, 166: 97
- LLAMA**
 blood sugar level of, 1950, 162: 438
- LOBELINE**
 panting rate, 1939, 127: 764
 respiration, 1938, 123: 766
 survival to explosive decompression, 1950, 163: 401
- LOCKWOOD, JULIA E.: see GRIFFITH, F. R., JR.**
- LOCKWOOD, R. A.: see BROOKS, C. McC.**
- LOCOMOTION**
 analysis of, in man, 1938, 124: 300
 function of muscles in, 1939, 125: 357
- LOCOMOTOR MUSCLES**
 response to acid, 1945, 145: 9
- LOEB, L. and HAYWARD, S. J.** Formalin and hormones
 of pregnancy urine, 1940, 128: 425
 — and HAYWARD, S. J. Formalin and pituitary
 hormones, 1939, 127: 497
 — See HAYWARD, S. J.

- LOEB, R. F.: *see* FERREBEE, J. W.
 — *See* RAGAN, C.
- LOEW, E. R., GRAY, J. S. and IVY, A. C. Acid stimulation of duodenum and blood sugar, 1940, 128: 298
 —, GRAY, J. S. and IVY, A. C. Duodenal hormone and carbohydrate metabolism, 1940, 129: 659
 — GRAY, J. S. and IVY, A. C. Duodenal hydrochloric acid and blood sugar level, 1939, 126: 270
 — *See* BOURQUE, J. E.
 — *See* KOMRAD, E. L.
- LOEWY, A. and FREEMAN, L. W. Physiologic icterus of the newborn, 1948, 152: 205
 —, FREEMAN, L. W., MARCHELLO, A. and JOHNSON, V. Increased erythrocyte destruction on a high fat diet, 1943, 138: 230
 — *See* FREEMAN, L. W.
- LOGAN, M. A., CHRISTENSEN, W. R. and KIRKLIN, J. W. Thyroid and parathyroid in Ca and P metabolism, 1942, 135: 419
- LOGAN, MYRTLE: *see* FERRIS, E. B.
- LOJIN, MARY E.: *see* MULINOS, M. G.
- LONG, C. N. H.: *see* GOLDEN, W. R. C.
 — *See* HARKINS, H. N.
 — *See* RUSSELL, JANE A.
 — *See* SAYERS, MARION A.
 — *See* WILHELM, A. E.
- LONG, J. A.: *see* BURLINGAME, P.
- LONG, JOAN: *see* OPPENHEIMER, M. J.
- LONGEVITY
 calcium intake, 1945, 144: 718
 caloric intake, 1947, 148: 615; 1947, 150: 511
 corn syrup and thiamin diet, 1945, 145: 109
 diets of pure carbohydrates, 1946, 147: 13
 glucose, sucrose, thiamin, 1945, 143: 340
 sucrose or lactose and, fat diet, 1947, 148: 46
- LONGINO, F. H. and GREGG, D. E. Measurement of cardiac output, 1951, 167: 721
- LONGINI, JOAN and JOHNSON, V. Increased blood cell fragility after fat ingestion, 1943, 140: 349
- LONGLEY, L. P.: *see* BOBEY, M. E.
- LONGWELL, B. B.: *see* HOLTKAMP, D. E.
- LOOFBOURROW, G. N. and GELLHORN, E. Proprioceptive reflexes, 1948, 154: 433
- LOOMIS, E. C. and SEEGER, W. H. Is prothrombin a unitary principle or a complex?, 1947, 148: 563
- LOOMIS, T. A., HUBBARD, R. S. and KOEFF, G. F. Excretion of sulfanilamide and acetylsulfanilamide, 1943, 139: 197
 —, KOEFF, G. F. and HUBBARD, R. S. Excretion of sulfa compounds by human kidney, 1944, 141: 158
 — *See* GRIFFITH, F. R., JR.
- LOOMIS, W. F.: *see* TOBIAS, C. A.
- LOONEY, J. M. and BORKOVIC, E. J. O₂ and CO₂ of cerebral blood during diathermy, 1942, 136: 177
 — *See* MICHAEL, S. T.
- LORBER, S. H., KOMAROV, S. A. and SHAY, H. Sham feeding and gastric motor activity, 1950, 162: 447
- LORBER, V., LIFSON, N., WOOD, H. G. and BARCROFT, J. Acetate metabolism in isolated cat heart, 1946, 145: 557
- LORD, J. W., JR.: *see* ANDRUS, W. DEW.
- LORENTE DE NÓ, R. Liberation of acetylcholine by sympathetic ganglia, 1938, 121: 331
 — and GRAHAM, HELEN T. Recovery cycle of motoneurons, 1938, 123: 388
 — *See* GRAHAM, HELEN T.
- LORENZ, F. W., PERLMAN, I. and CHAIKOFF, I. L. Phosphorous deposition in the egg, 1943, 138: 318
- LOTHROP, GLADYS N.: *see* MORISON, R. S.
- LOTSPEICH, W. D. Renal tubular reabsorption of sulfate, 1947, 151: 311
 —, SWAN, R. C. and PITTS, R. F. Renal tubular reabsorption of chloride, 1947, 148: 445
 — *See* PITTS, R. F.
- LOUBE, S. D.: *see* LEVINE, R.
- LOUCKS, R. B.: *see* KATZENELBOGEN, S.
- LOW, F. N. Brightness and form perception, 1948, 155: 409
 — Characteristics of peripheral visual performance, 1946, 146: 573
 — Peripheral motion acuity of 50 subjects, 1947, 148: 124
 — Peripheral visual acuity, 1943, 140: 83; 1947, 151: 319
 — Peripheral visual acuity during dark adaptation, 1946, 146: 622
 — Peripheral visual acuity under scotopic conditions, 1946, 146: 21
- LOWE, C. R. and GESELL, R. Anticholinesterases and muscle, 1948, 153: 355
- LOWE, R. C.: *see* HAHN, P. F.
- LOWENSTEIN, B. E.
 — *See* CHAMBERS, R.
 — *See* ZWEIFACH, B. W.
- LOWRANCE, P. and CHANUTIN, A. Blood volume and partial hepatectomy, 1942, 135: 606
- LOWRY, JEANETTE K.: *see* FLINK, E. B.
- LOWRY, O. H., GILLIGAN, D. R. and HASTINGS, A. B. Histochemical changes after coronary occlusion, 1942, 136: 474
 — *See* KALCKAR, H. M.
- LOWTHER, STEPHANIE: *see* MURPHY, ROSEMARY
- LOZNER, E. L.: *see* PACE, N.
- LUBIN, M.: *see* ECKENHOFF, J. E.
 — *See* GOODALE, W. T.
- LUCIA, S. P.: *see* GREENBERG, D. M.
- LUCK, J. M.: *see* CRISMON, CATHRINE A.
 — *See* EVANS, H. M.
- LUCKHARDT, A. B.
 — *See* SCOTT, C. C.
 — *See* SCOTT, W. W.
- LUCO, J. V. Defatiguing effect of adrenaline, 1939, 125: 196
 — and ALTAMIRANO, M. Atropine and curare as antagonists of acetylcholine, 1943, 139: 520
 — and LISSÁK, K. Chemical mediators in aqueous humor, 1938, 124: 271
 — and ROSENBLUETH, A. Neuromuscular transmission-fatigue, 1939, 126: 58

- See ALTAMIRANO, M.
 — See LANARI, A.
 — See ROSENBLUETH, A.
 LUDEMANN, H., RAISZ, L. G. and WIRZ, H. Filtration rate and water diuresis in dog, 1951, 166: 416
 LUDEWIG, S. and CHANUTIN, A. Whole body irradiation and storage of iron, 1951, 166: 384
 — and CHANUTIN, A. X-ray irradiation and alkaline phosphatase, 1950, 163: 648
 — See CHANUTIN, A.
 LUFT, U. C.: see KRAMER, K.
 LUKAS, D. S.: see DOTTER, C. T.
 LUKENS, F. D. W. Pancreatectomy in the goat, 1938, 122: 729
 — See DOHAN, F. C.
 — See MILMAN, ANNE E.
 LUMBAR MUSCLES
 pH of in vivo, 1946, 146: 4
 LUMINAL VESSELS
 of heart, role of, 1941, 132: 648
 LUND, M.: see MYLON, E.
 LUNDBAEK, K. and STEVENSON, J. A. F. Reduced carbohydrate intake after fat feeding, 1947, 151: 530
 LUNGS
 acetylcholine synthesis, 1947, 148: 418
 aerated, circulation time in, 1941, 132: 95
 air pressure, venous return, 1946, 145: 528
 alveolar air studies, 1949, 158: 21
 alveolar gas changes during breath holding, 1948, 152: 674
 alveolar pressure in man, 1948, 152: 106
 ANTU, 1949, 156: 35
 arterial pressure in, arteriovenous fistula, 1949, 158: 110
 arterio-venous anastomoses in, 1948, 152: 48
 artery ligation and histamine content of lung, 1948, 152: 417
 artificial inflation of, phrenic impulses, 1946, 147: 90
 atelectatic, circulation time in, 1941, 132: 95
 blood flow, 1951, 166: 42
 method for measuring, 1951, 167: 757
 relationships during pulmonary gas exchange, 1949, 158: 21
 Ca and P content after single massive dose of vitamin D, 1947, 149: 338
 capillaries, time spent by blood in, 1945, 143: 621
 CO₂, acetylcholine and vascular response, 1951, 166: 723
 production at high oxygen tension, 1947, 148: 499
 changes in circulation, 1948, 152: 372
 chloride content, 1938, 122: 228; 1940, 129: 600
 damage due to explosive decompression, 1947, 150: 611
 disease, pulmonary vascular bed, 1948, 152: 372
 displacement of blood from by pressure breathing, 1947, 151: 258
 distensibility and pulmonary congestion, 1947, 150: 654
 drainage and damage to tracheal mucosa, 1944, 140: 469
 edema due to adrenaline, alarm reaction, 1938, 122: 347
 due to ammonium salts, 1949, 158: 1
 hemorrhage and, body temperature and air humidity, 1949, 158: 429
 hyperthermia, 1949, 158: 429
 intracranial pressure, 1948, 152: 589; 1949, 157: 130
 vagotomy, 1948, 152: 585; 1949, 157: 130
 vessel pressures, 1950, 161: 336
 experimental arteriovenous fistula, 1951, 165: 513
 extracts, thromboplastic activity of, 1939, 126: 666
 factors increasing flow of lymph from, 1942, 137: 641
 heparin content, 1939, 125: 104
 histaminase content, 1940, 129: 221; 1946, 146: 58
 histamine content, 1938, 124: 415; 1941, 131: 591
 hypertension from lycopodium spores, 1951, 164: 380
 hypoxic, blood flow through, 1951, 166: 37
 inflation, atrial pressure, 1948, 154: 269
 pulmonary vascular resistance, 1951, 167: 756
 intracranial pressure, 1949, 158: 96
 irritant site of action of diphosgene, 1949, 158: 173
 isolated, distensibility of, 1947, 150: 656
 elasticity of, 1951, 167: 113
 loss of water from, 1950, 162: 34
 lymph flow from, 1942, 136: 207
 minute volume, altitude, 1946, 146: 713; 1947, 148: 141
 O₂ absorption of, after ligation of pulmonary artery, 1949, 157: 322
 O₂ and CO₂ tensions in alveolar, 1947, 151: 276
 pathology in acclimatization to high altitudes, 1951, 167: 265
 perfusion circuit for, 1951, 166: 724
 pressure in, venous pressure, 1946, 146: 309
 pressure volume diagram of, 1941, 134: 466; 1946, 146: 161
 radioactive colloidal gold in, 1951, 164: 830
 radioactive iodine in, 1941, 132: 348
 reactivity of blood vessels, 1951, 167: 732
 reflexes from, 1951, 165: 263
 relaxation pressure, peripheral venous pressure, 1946, 146: 310
 posture, 1946, 146: 171
 removal of foreign substances by lymphatics, 1938, 123: 598
 residual volume, 1948, 153: 138
 respiratory dead space of, 1948, 154: 405; 1948, 155: 420
 methods of measuring, 1948, 154: 410
 sodium turnover in, 1951, 167: 336
 thromboplastic suspensions from, 1950, 162: 293
 utilization of beta-hydroxybutyric acid by, 1938, 123: 272
 vascular capacity, respiration, 1943, 139: 95
 vascular resistance in, 1951, 167: 756
 anoxia, 1947, 150: 319
 venous and arterial pressures in, 1949, 158: 89
 ventilation, evaluation of elastic and viscous resistance to, 1941, 134: 450
 kinetics of, 1941, 134: 450
 vitamins A and D and Ca and P content of, 1947, 149: 325

LUNGS

volume, regulation of, 1950, 163: 111
volume receptors, unitary analysis of, 1946, 147: 100
water content, 1938, 121: 381
diet, exercise, 1940, 128: 539
water losses from, 1946, 145: 437
weight, body weight, 1942, 136: 508

LUSHBAUGH, C. C.: *see* TOBIAS, J. M.

LUSTIG, B., GOLDFARB, A. R. and GERSTL, B. Vitamins and sex hormones in dietary achromotrichia, 1944, 141: 259

LUTZ, B. R.: *see* FULTON, G. P.

LUX, R. E. and CHRISTIAN, J. E. Permeability of frog skin and tracers, 1950, 162: 193

LYCOPodium SPORES

pulmonary hypertension from, 1951, 164: 380
LYMAN, C. P. CO₂ and hibernation, 1951, 167: 638
— Penetration of radioactive K in denervated muscle, 1942, 137: 392
— and HASTINGS, A. B. Total CO₂, plasma pH and pCO₂ in hibernation, 1951, 167: 633
— *See* Chatfield, P. O.

LYMPH

absorption from nasal pharynx, 1939, 126: 20
after burns, metabolism, 1944, 142: 284
alterations of protein fractions of, 1951, 164: 119
anesthesia, flow, 1948, 155: 50
flow and cell content of, 1950, 160: 9
production of, 1948, 154: 475
protein content, 1948, 155: 50
blood gases and formation of, 1940, 131: 331
cervical, flow and warm nasopharyngeal irrigation, 1940, 128: 350
in adrenalectomized dog, 1942, 137: 69
in histamine shock, 1941, 133: 64
pressure in, 1939, 127: 154
cholesterol in intestinal and hepatic, 1951, 164: 480
cholinesterase content, 1947, 150: 748
cisternal, proteins of in cirrhosis, 1951, 164: 117
composition following x-radiation, 1950, 163: 668
from liver, 1941, 133: 80
infusion of renin, 1946, 146: 668
drainage, from gall bladder, 1941, 133: 80
exchange of albumin between plasma, 1951, 165: 15
exercise, muscle soreness, 1938, 122: 569
factors increasing flow from lung, 1942, 137: 641
flow, and composition from kidney, 1942, 138: 110
anesthesia, 1948, 154: 475; 1948, 155: 50; 1950, 160: 9
from lungs, 1942, 136: 207
infusion of renin, 1946, 146: 668
pressure and composition, 1940, 130: 43
temperature variation, 1940, 130: 34
hemorrhage and coagulation, 1943, 138: 753
in carbon monoxide anoxemia, 1941, 133: 170
intestinal, hypoprothrombinemia due to loss of, 1949, 158: 311
transport of fatty acids by, 1951, 166: 451
lipids of, following feeding of fat, 1950, 163: 41
metabolism, 1944, 142: 284
after burns, 1944, 142: 284

origin of renal, 1943, 138: 553
prothrombin and fibrinogen in, 1941, 132: 666
removal of foreign substances from lung, 1938, 123: 598
thoracic duct volume and fluid administration, 1938, 122: 281
transport of absorbed lipids, 1941, 134: 773

LYMPH NODES

acetylcholine synthesis, 1947, 148: 418
callicrein inactivator from, 1944, 142: 542
cholinesterase in, 1947, 148: 677
histamine content, 1938, 124: 415
inguinal, estrogens and x-ray injury to, 1949, 159: 275
mesenteric, resection and fat absorption, 1948, 153: 264

LYMPHATIC TISSUE: *see* TISSUE, lymphatic

LYMPHATICS

absorption of fats, 1938, 124: 466
block of, and bile resorption, 1942, 137: 99

LYMPHOCYTES

anesthesia, 1948, 152: 7
avitaminosis A, 1938, 122: 592
callicrein, 1944, 142: 533
output of, 1945, 144: 297

LYMPHOID NECROSIS

neuromuscular function, 1950, 163: 201

LYMPHOID TISSUE: *see* TISSUE, lymphoid

LYMPHOSARCOMA

body water in, 1950, 162: 315
LYON, R. A. and ALLEN, W. M. Sensitivity of endometrium during lactation, 1938, 122: 624

LYONS, C.

— *See* MAYERSON, H. S.
— *See* NIESET, R. T.
— *See* PARSON, W.

LYSINE

competition with arginine for tubular reabsorption, 1947, 151: 204
renal clearance of, 1947, 149: 132

LYSINS

comparison of in vivo and in vitro activity, 1941, 132: 18

LYSOLECITHINS

possible identity with D-L substance, 1950, 161: 570
LYTTLE, J. D.: *see* GOETTSCH, E.

MAASKE, C. A. and GIBSON, B. Magnesium and denervated muscle, 1939, 127: 486
—, KRASNO, M. R. and EYSTER, J. A. E. Potential distribution in frog gastrocnemius, 1938, 121: 250
MAASS, A. R., MICHAUD, L., SPECTOR, H., ELVEHJEM, C. A. and HART, E. B. Copper and hematopoiesis in anemia, 1944, 141: 322
MACDONALD, D. G. H. and MCHENRY, E. W. Diet and bradycardia in the rat, 1940, 128: 608
MACDOWELL, MURIEL C.: *see* WALKER, A. M.
MACFARLAND, M. L., PETERS, M. V., BALLANTYNE,

- R. M. and McHENRY, E. W. Pyridoxine and radiation injury, 1950, 163: 394
- MACHELLA, T. E.: *see* RHOADS, J. E.
- MACHT, D. I. Intraosseous injections of epinephrine, 1943, 138: 269
- MACINTOSH, F. C. and KRUEGER, L. Choline as a stimulant of gastric secretion, 1938, 122: 119
— *See* RICHTER, D.
- MACK, E. G.: *see* BOYD, E. M.
- MACK, I., GROSSMAN, M. I. and KATZ, L. N. Pulmonary congestion and distensibility of lungs, 1947, 150: 654
- MACKAY, E. M. and BARNES, R. H. Adrenalectomy and ketolytic activity, 1938, 122: 101
— and CLARK, W. G. Intestinal glucose absorption in the rat, 1941, 135: 187
— and DRURY, D. R. Storage of carbohydrate food, 1941, 132: 661
— and WICK, A. N. Adrenalectomy and blood and urine ketones, 1939, 126: 753
—, BARNES, R. H. and BERGMAN, H. C. Insulin and protein metabolism, 1939, 126: 155
—, BARNES, R. H. and CARNE, H. O. Appetite and fat deposition with high protein diet, 1941, 135: 193
— *See* BARNES, R. H.
— *See* CLARK, W. G.
— *See* DRURY, D. R.
— *See* WICK, A. N.
- MACKAY, E. S.: *see* LEEDS, S. E.
- MACKAY, I. F. S.: *see* DAVIES, R. E.
- MACKAY, JOANNA L. Narcotic level of carbon dioxide, 1947, 151: 469
- MACKIE, G. C.: *see* SCOTT, J. C.
- MACKLER, B., LICHTENSTEIN, H. and GUEST, G. M. Acidosis and insulin action, 1951, 166: 191
— *See* RAPOPORT, S.
- MACLACHLAN, P. L. and THACKER, C. W. Anoxia and fat absorption in rats, 1945, 143: 391
- MACLEAN, ALICE: *see* RICHTER, C. P.
- MACLEOD, J. Metabolism of human spermatozoa, 1941, 132: 193
— Role of O₂ in metabolism and motility of spermatozoa, 1943, 138: 512
— Seasonal variations in polynuclear count, 1938, 122: 520
—, SWAN, R. C. and AITKEN, G. A., JR. Toxic effects of lithium, 1949, 157: 177
— *See* PONDER, E.
- MACPHERSON, L. B.: *see* CLOWES, G. H. A., JR.
- MACY, ICIE G., REYNOLDS, L. and SOUDERS, HELEN J. Carmine and gastrointestinal motility, 1939, 126: 75
- MADDEN, J. D.: *see* CRISMON, J. M.
- MADDEN, R. J.: *see* MCKIBBIN, J. M.
- MADDOCK, S. and SVEDBERG, ANDREA. Total removal of liver in monkey, 1938, 121: 203
—, HAWKINS, J. E., JR. and HOLMES, E. Electroencephalograms and hypoglycemia, 1939, 125: 551
— *See* SVEDBERG, ANDREA
- MADJEREK, Z.: *see* HARRIS, A. S.
- MADOW, L.: *see* FORSTER, F. M.
- MAES, J. P. Superior cervical ganglion and lachrymal secretion, 1938, 123: 359
— *See* FORSTER, R. P.
— *See* PAPPENHEIMER, J. R.
— *See* RAAB, W.
— *See* SIMEONE, F. A.
- MAGATH, T. B.: *see* BERKSON, J.
— *See* OWEN, C. A., JR.
- MAGEE, C. S.: *see* GESELL, R.
- MAGEE, D. F.: *see* HARTIALA, K.
- MAGNES, J.: *see* GEIGER, A.
— *See* GRUNDFEST, H.
- MAGNESIUM
acetylcholine response of denervated muscle, 1939, 127: 489
acidosis and, in muscle, 1951, 167: 669 ✓
adrenalectomy, 1941, 134: 227 ✓
anaerobic glycolysis in liver slices, 1946, 147: 509
blood pressure, 1939, 127: 724 ✓
body temperature, 1948, 152: 407
deficiency, audiogenic seizures, 1947, 149: 135 ✓
excitability of autonomic nervous system, 1941, 134: 603 ✓
muscle electrolytes, 1951, 167: 669 ✓
protein, calcium, 1951, 166: 408 ✓
renal function and, 1938, 121: 424 ✓
tetany due to, 1938, 121: 416; 1942, 137: 461 ✓
denervated muscle, 1939, 127: 486 ✓
diffusion of, in the peritoneum, 1939, 126: 68 ✓
diuretic effect of, 1941, 134: 729 ✓
electrocardiogram, 1939, 126: 724 ✓
gastric secretion, 1941, 134: 27 ✓
growth of rats, 1948, 153: 432 ✓
metabolism, permutit Z feeding, 1951, 164: 695 ✓
metabolism of spermatozoa, 1943, 138: 744
muscle phosphates, 1950, 161: 387
nerve-free smooth muscle of chick amnion, 1940, 131: 528
nervous system, 1940, 130: 292 ✓
of blood, during hypothermia, 1950, 161: 399
lethal level, 1942, 135: 493
various effects, 1942, 135: 492
of cartilage, 1951, 166: 331 ✓
of muscle, stimulation, 1938, 121: 601
of muscle and skin, splenectomy, 1950, 160: 298
of plasma, DCA and ACTH, 1950, 160: 223
in shock, 1947, 149: 53
of serum, 1940, 130: 292
body temperature, 1948, 152: 413
splenectomy, 1950, 160: 297 ✓
thyroid, 1948, 152: 104 ✓
of serum and cells in pregnancy, 1942, 137: 386
of tissues of fish and turtle, 1950, 161: 399
optimum and toxicity levels in rats, 1951, 166: 210 ✓
oxygen consumption of brain slices, 1951, 166: 219 ✓
potassium antagonism, 1951, 164: 702 ✓
respiration of brain cortex, 1942, 135: 313 ✓
urinary excretion of, 1949, 158: 214 ✓
- MAGNESIUM CHLORIDE: *see* CHLORIDES
- MAGNESIUM SULFATE: *see* SULFATES, MG

- MAGOUN, H. W. Frontal lobes and excitability of hypothalamus, 1938, 122: 530
- and BEATON, L. E. Respiratory responses from medulla of cat, 1941, 134: 186
- and BEATON, L. E. Salivatory motor nuclei in monkey, 1942, 136: 720
- and MCKINLEY, W. A. Trigeminal and spinal tracts ending in thalamus, 1942, 137: 409
- See BEATON, L. E.
- See FISHER, C.
- See GROAT, R. A.
- See HARRISON, F.
- See MCKINLEY, W. A.
- See PITTS, R. F.
- See RHINES, R.
- MAGY, D. B.: *see* MARX, W.
- MAIN, EDNA: *see* WILLS, J. H.
- MAISON, G. L. Potassium, lactate and ammonium ions in ischemic pain, 1939, 127: 315
- and BROEKE, A. G. Blood supply and muscle, 1941, 132: 390
- and FORSTER, A. C. pH of ischemic human muscle after contraction, 1939, 125: 735
- , ORTH, O. S. and LEMMER, K. E. pH changes in muscle after contraction, 1938, 121: 311
- See HATERIUS, H. O.
- See PROCHNIK, G.
- See STEARNS, N. S.
- MAITRE, S. R.: *see* SARKAR, N. K.
- MAJNARICH, J. J.: *see* NORRIS, E. R.
- MALARIA
- erythrocyte permeability of monkey, 1948, 152: 113
- MALATE
- as substrate for perfused rat heart, 1949, 158: 272
- blood coagulation, 1940, 130: 576
- MALEIC ACID
- blood coagulation, 1940, 130: 576
- renal electrolyte metabolism, 1951, 167: 209
- MALIN, A.: *see* ROBBARD, S.
- MALING, HARRIET M. Fatigue of the depressor reflex, 1944, 142: 350
- MALONATE
- blocking of epinephrine cardioacceleration, 1950, 163: 492
- blood coagulation, 1940, 130: 576
- PAH accumulation in kidney slices, 1950, 161: 189
- renal electrolyte metabolism, 1951, 167: 208
- succinic oxidase-succinoxidase inhibition and suppression of renal tubular mechanisms, 1951, 166: 110
- MALONONITRILE
- nucleoprotein in brain, 1951, 164: 8
- MALTOSE
- availability after hepatectomy, 1939, 125: 558
- glycolysis, by bull spermatozoa, 1950, 162: 598
- MALUR, N. S. R. Nephro-omentopexy and renal function, 1949, 156: 79
- Role of innervation in renal tubular function, 1943, 139: 103
- MAMMARY GLAND
- efficiency of, 1938, 122: 150
- respiratory quotient of, 1938, 122: 150
- lactation, 1941, 132: 535
- MAN (studies of—in): *see also* WOMAN
- abdominal and arterial pressure during labor, 1938, 121: 640
- absorption of radioactive isotopes, 1938, 124: 671
- acclimatization in, 1943, 140: 168; 1946, 146: 336; 1947, 148: 86; 1947, 149: 570; 1947, 150: 99; 1949, 157: 445
- acetylcholine in body fluids, 1938, 122: 631; 1950, 162: 616
- acid-base balance of blood, 1938, 123: 552
- acoustic stimuli and post-contraction hypertonus, 1944, 141: 486
- activity of wrist muscle, 1947, 150: 596
- actomyosin of uterus, 1950, 160: 46
- adrenocortical hormones, 1938, 121: 543; 1938, 121: 549
- age, 1938, 121: 502; 1938, 121: 517; 1938, 122: 491; 1941, 134: 719; 1942, 136: 451; 1945, 143: 423
- alcohol, 1938, 123: 248
- altitude, 1945, 144: 637; 1946, 145: 279; 1946, 145: 351; 1946, 145: 359; 1946, 145: 365; 1946, 145: 428; 1946, 145: 685; 1946, 146: 395; 1946, 146: 637; 1946, 146: 712; 1946, 147: 217; 1947, 149: 570; 1947, 150: 3; 1947, 150: 133; 1949, 157: 268; 1949, 157: 445
- alveolar air, 1946, 146: 209; 1946, 146: 637; 1946, 147: 197; 1946, 147: 603; 1947, 151: 276; 1948, 152: 106; 1948, 152: 674; 1948, 154: 405; 1949, 158: 21; 1950, 161: 342
- amphetamine, 1942, 136: 395; 1942, 137: 94
- anoxia, 1939, 127: 39; 1941, 132: 426; 1943, 138: 593; 1943, 138: 659; 1943, 140: 354; 1944, 142: 328; 1945, 144: 378; 1946, 145: 359; 1947, 148: 139; 1947, 148: 152; 1947, 150: 316; 1947, 151: 588; 1948, 153: 10
- aorta, Young's modulus for, 1939, 125: 1
- ascorbic acid of male genital tract, 1941, 133: 85
- auditory stimuli necessary to awaken from sleep, 1938, 123: 477
- bed rest, 1945, 144: 228
- blood in diabetic acidosis, 1947, 149: 669
- blood and plasma clotting, 1945, 143: 67; 1949, 158: 84; 1949, 158: 380
- blood and plasma volume, 1940, 129: 72; 1940, 130: 739; 1941, 134: 165; 1945, 144: 228; 1946, 146: 739; 1947, 148: 531; 1947, 150: 173; 1947, 150: 634; 1948, 152: 563; 1950, 161: 239
- blood changes due to lipemia and heparin, 1951, 164: 798
- blood flow, 1938, 124: 735; 1939, 127: 437; 1941, 131: 630; 1941, 132: 640; 1945, 143: 53; 1945, 145: 218; 1946, 145: 716; 1946, 146: 600; 1946, 147: 517; 1947, 150: 122; 1947, 150: 183; 1947, 150: 304; 1948, 152: 499
- blood gases, 1938, 124: 13; 1938, 124: 735; 1940, 129: 47; 1940, 130: 779; 1941, 131: 619; 1941, 131: 633; 1941, 132: 426; 1942, 137: 238; 1942, 137: 257; 1942, 137: 715; 1944, 141: 28; 1944, 142: 704; 1944, 142: 708; 1944, 142: 739; 1946, 145: 347; 1946, 145: 351; 1946, 145: 428; 1946,

- 145: 685; 1946, 146: 613; 1946, 147: 54; 1946, 147: 199; 1946, 147: 622; 1946, 147: 630; 1946, 147: 636; 1947, 149: 43; 1947, 150: 3; 1948, 152: 365; 1948, 155: 420; 1950, 160: 172
- blood pH in, 1940, 130: 9
- blood picture and sedimentation rate, 1938, 122: 520; 1939, 126: 254; 1943, 138: 626; 1945, 144: 224
- blood pressure, 1938, 122: 472; 1938, 122: 491; 1942, 136: 115; 1942, 136: 451; 1943, 138: 618; 1944, 141: 42; 1946, 147: 260; 1947, 150: 267
- venous, 1939, 128: 258; 1940, 130: 636; 1943, 139: 208; 1946, 146: 307; 1947, 150: 267
- blood sugar, 1938, 121: 534; 1938, 123: 243; 1940, 130: 602; 1946, 145: 299; 1946, 145: 365; 1946, 145: 408; 1947, 150: 264; 1948, 153: 425; 1949, 158: 43
- BMR, 1938, 121: 502; 1938, 121: 669; 1943, 139: 280
- brain, blood flow and metabolism, 1941, 132: 640; 1945, 143: 53; 1946, 147: 517
- C.N.S., 1939, 125: 578; 1941, 132: 640; 1942, 136: 179; 1943, 139: 171; 1945, 143: 53; 1946, 147: 517; 1947, 150: 588
- caffeine, 1942, 138: 79; 1944, 141: 458
- carbohydrate metabolism, 1938, 121: 534; 1938, 124: 246; 1942, 136: 179; 1943, 138: 749; 1947, 148: 597; 1947, 150: 389; 1948, 152: 216
- carbon monoxide, 1941, 134: 686; 1945, 143: 594; 1945, 145: 239; 1945, 145: 253; 1946, 145: 347; 1946, 145: 351; 1946, 145: 359; 1946, 146: 739; 1946, 147: 352
- carbonic anhydrase, 1940, 129: 508
- cardiovascular responses, 1942, 138: 65; 1943, 139: 583; 1946, 146: 61; 1948, 152: 141
- center of gravity, 1938, 121: 465
- cholinesterase, 1939, 126: 184; 1947, 149: 550
- circulating red cell volume, 1948, 155: 226; 1948, 155: 232; 1948, 155: 239
- circulation, 1939, 125: 481; 1939, 127: 573; 1944, 141: 722; 1947, 150: 634
- clothing and energy balance in extreme cold, 1947, 149: 223
- comparison of bromide and inulin space, 1950, 162: 323
- creatine-creatinine metabolism, 1938, 123: 260; 1939, 127: 718; 1941, 132: 578; 1942, 138: 79; 1941, 133: 522; 1949, 157: 404
- cutaneous diffusion of helium, 1941, 131: 630
- decompression, 1946, 147: 603; 1947, 149: 626; 1947, 150: 133
- diathermy, 1942, 136: 179
- dicumarol, 1944, 142: 279
- diet, 1938, 123: 732; 1945, 144: 589; 1946, 145: 408; 1946, 146: 66; 1946, 146: 84; 1946, 146: 538; 1946, 147: 39; 1947, 148: 618; 1947, 149: 111; 1947, 150: 462
- EEG, 1944, 140: 584; 1947, 149: 187; 1947, 149: 538
- efficiency of glare reduction, by eyelids, 1945: 143: 541
- EKG, 1941, 132: 157; 1944, 142: 460; 1949, 156: 19
- elimination of nitrogen and helium, 1941, 131: 619
- encephalography, 1939, 125: 498
- enterocinin in, 1938, 121: 483
- environmental temperature, 1940, 129: 72; 1940, 130: 739; 1941, 132: 685; 1941, 134: 165; 1942, 136: 669; 1942, 136: 680; 1943, 139: 583; 1943, 140: 168; 1943, 140: 441; 1944, 141: 206; 1944, 142: 254; 1945, 143: 169; 1946, 146: 84; 1946, 146: 336; 1946, 146: 538; 1947, 148: 86; 1947, 150: 99; 1948, 152: 242
- enzyme studies, 1949, 156: 458; 1949, 159: 303
- ephedrine, 1951, 167: 59
- epinephrine, 1939, 126: 711; 1941, 135: 1; 1945, 144: 321; 1947, 150: 183; 1947, 151: 621; 1948, 155: 239
- excretion of substances by, 1938, 121: 98; 1938, 123: 260; 1939, 127: 718; 1940, 128: 585; 1940, 129: 589; 1941, 132: 578; 1941, 133: 522; 1941, 133: 679; 1941, 134: 245; 1942, 138: 79; 1943, 139: 214; 1943, 139: 742; 1944, 140: 548; 1944, 141: 73; 1944, 141: 158; 1944, 141: 470; 1947, 148: 327; 1948, 155: 278; 1948, 155: 345; 1949, 157: 14; 1949, 159: 461; 1950, 160: 307; 1950, 162: 353
- exercise, 1938, 121: 575; 1941, 135: 27; 1941, 135: 77; 1942, 136: 148; 1942, 137: 318; 1942, 138: 17; 1943, 138: 536; 1943, 138: 749; 1943, 139: 569; 1944, 141: 630; 1944, 142: 200; 1945, 144: 224; 1945, 144: 637; 1946, 145: 279; 1946, 145: 522; 1946, 146: 422; 1946, 147: 636; 1947, 148: 327; 1947, 149: 597; 1948, 152: 505; 1949, 156: 92; 1950, 162: 59
- extracellular fluid in, 1950, 160: 526
- famine edema, 1947, 150: 173
- fasting, 1945, 143: 151
- fatigue due to standing, 1947, 150: 109
- ferric and ferrous iron in anemia, 1945, 143: 193
- finger (blood flow, volume, action potentials), 1939, 127: 437; 1940, 130: 177; 1942, 136: 433; 1942, 136: 448; 1942, 136: 451; 1942, 136: 669; 1942, 136: 680; 1946, 146: 404
- folic acid of blood, 1947, 148: 320
- force and energy changes in leg during walking, 1939, 125: 339
- forces exerted in arm movements, 1947, 151: 415
- formation of cyanide from thiocyanate, 1951, 167: 47
- gastro-intestinal tract, 1938, 122: 631; 1938, 124: 671; 1939, 126: 75; 1939, 128: 89; 1940, 128: 692; 1940, 129: 508; 1940, 131: 195; 1941, 132: 42; 1941, 133: 686; 1941, 134: 719; 1942, 136: 561; 1943, 138: 557; 1943, 139: 433; 1944, 141: 79; 1944, 141: 206; 1944, 141: 458; 1947, 149: 111; 1947, 149: 688; 1947, 150: 462; 1948, 153: 242; 1948, 153: 475
- gelatin, 1941, 133: 522; 1941, 134: 300
- glucose, 1949, 159: 29
- glycine, 1939, 127: 718; 1941, 132: 578
- hands (blood supply), 1941, 134: 59; 1945, 145: 218; 1946, 146: 600
- heart, 1939, 126: 93; 1939, 126: 339; 1940, 129: 637; 1941, 134: 411; 1943, 138: 763; 1944, 140: 584; 1944, 142: 1; 1947, 150: 155; 1948, 152: 219; 1949, 157: 346; 1949, 159: 483; 1950, 163: 479
- ejection force, 1945, 144: 563; 1946, 145: 528

MAN (studies of—in): *see also* WOMAN

heart, output, 1938, 121: 517; 1939, 127: 1; 1940, 129: 102; 1946, 145: 458; 1948, 153: 309; 1949, 157: 346

stroke volume, 1939, 126: 741; 1948, 153: 298

hemolytic anemia from high fat and coline intake, 1945, 144: 445

heterologous renin, 1942, 136: 733

histamine, 1941, 132: 54; 1944, 141: 79; 1945, 144: 711; 1948, 153: 242; 1948, 155: 186; 1949, 157: 94

hydrostatic pressures in radial acceleration, 1947, 151: 459

hyperthermia, 1938, 123: 552

hypertonic solutions and electrolyte exchanges, 1949, 159: 160

hypothermia, 1941, 132: 685

inactivation of placental toxin, 1946, 146: 140; 1947, 149: 124.

insomnia, 1942, 138: 65; 1947, 150: 253

insulin, 1938, 123: 608; 1939, 128: 89; 1939, 128: 124

intracellular water, 1950, 162: 318

intramuscular pressure, 1939, 126: 247; 1943, 139: 161; 1947, 150: 491

intrarectal pressure, 1946, 147: 242

intravenous glycogen, 1950, 161: 557

iodine metabolism, 1939, 127: 565; 1940, 131: 135

ischemic pain, 1939, 127: 315

kidney, 1938, 123: 482; 1938, 123: 516; 1938, 123: 720; 1938, 124: 66; 1939, 127: 731; 1940, 129: 252; 1942, 136: 733; 1943, 139: 510; 1944, 142: 358; 1946, 145: 639; 1947, 148: 64; 1947, 150: 198; 1947, 151: 621; 1948, 152: 505; 1949, 157: 357; 1949, 157: 363

lactic acid of blood, 1942, 138: 7; 1944, 141: 73; 1944, 141: 630

laking of erythrocytes, 1943, 139: 569

leukocytosis after liver extract, 1939, 127: 58

locomotion, 1938, 124: 300

lysis of erythrocytes by snake venom, 1949, 158: 81

mechanics of isolated voluntary muscle, 1947, 151: 612

menarche and basal physiological functions, 1943, 139: 288

metabolism, 1938, 121: 543; 1938, 122: 563; 1940, 129: 1; 1940, 129: 776; 1942, 138: 17; 1945, 144: 637; 1946, 146: 395

methyltestosterone, 1949, 157: 404

motion sickness, 1944, 141: 173; 1946, 146: 458

movement of inorganic phosphate in blood of, 1947, 149: 679

muscles in, 1938, 121: 123; 1938, 121: 311; 1938, 122: 577; 1939, 125: 737; 1942, 136: 743; 1942, 137: 1

N₂ and O₂ transport, 1941, 131: 633

nasal volume and temperature, 1945, 144: 305

nitrogen clearance by oxygen breathing, 1942, 137: 715

nor-adrenaline and anxiety, 1951, 166: 314

number of glomeruli per kidney, 1943, 139: 510

nutritional status, 1946, 145: 625; 1947, 149: 142

orthostatic insufficiency in, 1945, 143: 11

oxyhemoglobin dissociation curves, 1944, 141: 28; 1944, 142: 739

oxyhemoglobin reduction time, 1946, 147: 622; 1946, 147: 630; 1946, 147: 636

pantothenic acid, 1941, 135: 69

phospholipid ingestion, 1939, 126: 109

physical properties of body, 1939, 127: 5

physiological icterus of newborn, 1948, 152: 205

pitressin, 1947, 151: 174

plasmatic cofactor of thromboplastin, 1947, 150: 381

pneumocardiogram, 1942, 136: 523

polycythemia, 1941, 134: 219; 1942, 137: 94; 1947, 148: 152; 1951, 167: 59

posture and standing, 1938, 121: 471; 1938, 122: 563; 1938, 124: 161; 1939, 125: 474; 1939, 125: 481; 1939, 127: 573; 1940, 129: 776; 1940, 130: 774; 1943, 138: 364; 1943, 140: 205; 1944, 140: 645; 1947, 150: 634; 1948, 152: 141; 1948, 152: 671; 1950, 161: 352

potassium metabolism, 1939, 126: 339; 1939, 126: 711; 1941, 135: 93; 1941, 135: 159; 1947, 149: 341; 1948, 153: 381; 1950, 162: 353

pressor substances in, 1944, 141: 104; 1948, 153: 344; 1950, 160: 409

prostatic fluid, 1943, 139: 129

protein binding of PAH, 1951, 167: 248

prothrombin, 1939, 125: 297; 1941, 132: 242; 1945, 143: 358; 1947, 148: 213; 1947, 150: 411; 1948, 154: 122; 1948, 154: 136; 1949, 158: 387; 1949, 159: 316; 1949, 159: 322

pteridines on bone marrow cells, 1948, 153: 496

pulmonary ventilation, 1940, 129: 166; 1941, 132: 426; 1942, 138: 17; 1946, 146: 613; 1947, 149: 277

reduction of hyper-irritability of dental innervation, 1948, 152: 658

relative velocities of plasma and erythrocytes in circulation, 1949, 157: 153

respiration, 1938, 124: 457; 1939, 125: 310; 1939, 127: 793; 1940, 129: 47; 1940, 129: 166; 1940, 130: 774; 1940, 130: 779; 1941, 132: 426; 1942, 137: 257; 1942, 137: 649; 1942, 138: 17; 1943, 138: 364; 1944, 141: 51; 1945, 143: 621; 1946, 146: 164; 1946, 146: 209; 1946, 146: 613; 1946, 146: 637; 1946, 147: 197; 1947, 149: 43; 1947, 149: 277; 1947, 149: 597; 1947, 149: 720; 1947, 150: 76; 1947, 150: 79; 1947, 150: 142; 1947, 151: 258; 1947, 151: 276; 1948, 152: 106; 1948, 152: 162; 1948, 152: 372; 1948, 152: 671; 1948, 152: 674; 1948, 154: 405; 1949, 158: 21; 1950, 161: 342; 1950, 161: 352; 1950, 162: 59

respiratory gases, 1940, 129: 47; 1940, 130: 779; 1942, 137: 257; 1946, 145: 351; 1946, 146: 61; 1946, 146: 712; 1946, 147: 54; 1946, 147: 217; 1947, 148: 568; 1947, 149: 43; 1947, 149: 277; 1947, 151: 479

retention and excretion of salt, 1945, 143: 573

retino-cerebral function, 1938, 121: 454

salyrgan, 1948, 154: 537

secretinase and uropancreatone, 1941, 134: 245

semen, 1942, 136: 467

serum magnesium level and body temperature, 1948, 152: 414

See page iii for guide to use of index

- single motor unit activity, 1941, 133: 658
- skin, 1938, 124: 161; 1939, 125: 474; 1939, 127: 671; 1941, 131: 630; 1942, 137: 492; 1944, 142: 68; 1945, 144: 724; 1946, 145: 716; 1946, 147: 1; 1947, 150: 122; 1947, 151: 576; 1948, 152: 122; 1948, 155: 186
- skin resistance, 1944, 142: 68; 1946, 147: 1
- spermatocele fluid, 1940, 130: 290
- spermatozoa, 1940, 128: 409; 1940, 129: 234; 1941, 132: 193; 1942, 136: 538; 1943, 138: 512; 1949, 157: 179
- spinal anesthesia, 1950, 161: 239
- statistical analysis of knee-jerk, 1944, 141: 67
- sucrose in body fluids, 1942, 137: 722
- sulfa drugs, 1941, 135: 77; 1942, 137: 593
- sunburn, 1946, 146: 97; 1946, 146: 108; 1946, 146: 118
- sweat glands, 1944, 141: 576; 1946, 145: 712; 1946, 147: 370; 1946, 147: 391; 1947, 149: 204; 1947, 150: 365; 1947, 151: 576
- taste thresholds, 1939, 126: 1; 1940, 128: 295; 1941, 134: 159; 1951, 165: 248
- TEA, 1949, 158: 403
- temperature regulation, 1938, 121: 495; 1938, 123: 486; 1938, 123: 552; 1938, 124: 30; 1938, 124: 51; 1938, 124: 692; 1939, 125: 37; 1939, 127: 437; 1939, 127: 454; 1939, 127: 505; 1940, 128: 782; 1940, 129: 84; 1940, 131: 79; 1940, 131: 93; 1940, 131: 195; 1941, 134: 664; 1942, 135: 427; 1942, 136: 105; 1945, 143: 21; 1946, 145: 712; 1946, 146: 265; 1946, 146: 510; 1946, 146: 600; 1946, 147: 370; 1947, 148: 86; 1947, 149: 204; 1947, 149: 483; 1947, 150: 365; 1947, 151: 564; 1947, 151: 626; 1948, 152: 414; 1948, 153: 10; 1950, 163: 585
- thermal sensation and discrimination, 1941, 134: 645
- tolerance to colds, 1946, 146: 66
- training and physical fitness, 1942, 136: 148; 1944, 141: 630; 1944, 142: 68; 1946, 146: 422; 1946, 147: 1; 1946, 147: 39; 1947, 149: 720
- tryptophane, 1948, 153: 425; 1949, 158: 43
- uptake of P^{32} by erythrocytes, 1951, 164: 213
- urinary estrogens in menstrual cycle and pregnancy, 1938, 121: 98
- urine composition in diuresis, 1947, 148: 327
- vascular tone and body temperature, 1940, 129: 565
- vasoconstriction, 1940, 130: 56; 1942, 136: 692; 1942, 137: 695; 1943, 139: 35
- vasodilatation, 1942, 137: 695; 1948, 152: 183
- vision in, 1938, 122: 57; 1938, 123: 732; 1939, 127: 39; 1940, 130: 653; 1942, 136: 463; 1942, 137: 776; 1943, 140: 83; 1943, 140: 354; 1944, 140: 579; 1944, 142: 328; 1945, 143: 8; 1945, 144: 378; 1945, 145: 299; 1946, 146: 21; 1946, 146: 573; 1946, 146: 622; 1946, 146: 689; 1947, 148: 124; 1947, 148: 372; 1947, 148: 376; 1947, 151: 319; 1948, 155: 409
- vital capacity, 1939, 127: 793; 1944, 141: 51; 1947, 150: 76; 1948, 152: 671; 1950, 161: 352
- vitamin A deficiency in, 1939, 126: 254; 1942, 137: 554; 1944, 140: 579
- vitamin B of whole blood, 1950, 163: 79
- vitamin B complex deficiency, 1942, 137: 731; 1945, 144: 5
- vitamin tolerances, 1945, 144: 58
- water and salts in blood, 1948, 152: 77
- water balance, 1938, 121: 40; 1938, 122: 668; 1938, 123: 369; 1943, 138: 191; 1943, 138: 603; 1945, 143: 373; 1945, 143: 567; 1946, 146: 371; 1947, 151: 253; 1949, 156: 433; 1949, 157: 363; 1950, 161: 75; 1950, 162: 313
- work, 1939, 125: 737; 1940, 130: 602; 1941, 134: 300; 1942, 136: 79; 1942, 136: 363; 1942, 136: 395; 1942, 137: 554; 1943, 140: 441; 1944, 141: 641; 1944, 142: 142; 1944, 142: 254; 1945, 143: 151; 1945, 143: 169; 1945, 143: 423; 1946, 145: 391; 1946, 145: 408; 1946, 146: 336; 1947, 149: 181; 1947, 151: 405; 1947, 151: 588
- MAN, EVELYN B.: *see* BOGDANOVITCH, S. B.
- MANDELBAUM, J.: *see* HECHT, S.
- MANDIBULAR REFLEX
central pathway for, 1942, 135: 439
- MANERY, JEANNE F. and BALE, W. F. Na^{24} and P^{32} in tissues, 1941, 132: 215
- and HAEGE, LORRAINE F. Cl^{38} in tissues, 1941, 134: 83
- and SOLANDT, D. Y. Plasma potassium changes in traumatic shock, 1943, 138: 499
- *See* FENN, W. O.
- *See* PEN, D. F.
- MANGANESE
hemoglobin level, 1946, 145: 503
- hemoglobin regeneration, 1943, 140: 79
- intake and bisulfite-binding substances in blood, 1944, 141: 648
- metabolism of spermatozoa, 1943, 138: 744
- rat incisor, 1943, 139: 233
- requirement for in rat, 1943, 140: 72
- MANN, F. C.: *see* BERRYMAN, G. H.
- *See* ESSEX, H. E.
- *See* GRAÑA, A.
- *See* GRINDLAY, J. H.
- *See* HAUSNER, E.
- *See* HERRICK, J. F.
- *See* HESTER, H. R.
- *See* HWANG, K.
- *See* MANN, F. D.
- *See* NIX, J. T.
- *See* SOSKIN, S.
- MANN, F. D. and HURN, MARGARET. Co-Thromboplastin in blood coagulation, 1951, 164: 105
- , HURN, MARGARET and MATHIESON, D. R. Platelet foci in coagulation, 1949, 158: 84
- , SHONYO, E. S. and MANN, F. C. Liver and blood coagulation, 1951, 164: 111
- *See* MANN, J. D.
- MANN, G. V., KAHN, S. S. and STARE, F. J. DL-tryptophan and blood sugar levels, 1949, 158: 38
- MANN, J. D., MANN, F. D. and BOLLMAN, J. L. Hypoprothrombinemia, 1949, 158: 311
- MANN, L. S. and GUEST, S. I. Blood volume and spinal anesthesia, 1950, 161: 239
- MANN, W.: *see* ARIEL, I.

- McCURDY-LARSON TEST
insomnia, 1942, 138: 66
- MCDONALD, C. H., BOYLE, R. W. and DEGROAT, A. F.
Hyperthyroidism and cardiac glycogen, 1938,
124: 742
- MCDONALD, R. K. and KELLEY, V. C. Altitude anoxia
and renal function, 1948, 154: 193
- See KELLEY, V. C.
- MCDONOUGH, FLORENCE K. Homeostasis in the
sympathetomized dog, 1939, 125: 530
- McELROY, W. D. and WHITELEY, A. H. Intravascular
gas bubble formation in decompression, 1946,
147: 19
- See WHITELEY, A. H.
- McEWEN, JEAN P.: see MEYER, A. E.
- McFARLAND, R. A. and EVANS, J. N. Dark adaptation
and reduced oxygen tension, 1939, 127: 37
- , HALPERIN, M. H. and NIVEN, J. I. Visual
thresholds as index of modification of anoxia,
1945, 144: 378
- , HALPERIN, M. H. and NIVEN, J. I. Visual
thresholds as index of physiological imbalance,
1944, 142: 328
- , HALPERIN, M. H. and NIVEN, J. I. Visual
thresholds during insulin hypoglycemia, 1946,
145: 299
- , HURVICH, L. M. and HALPERIN, M. H. Oxygen
deprivation and visual after-images, 1943, 140:
354
- McGINTY, D. A.: see WILSON, MARY L.
- McGLONE, B.: see BURTON, A. C.
- McGUIRE, T. F.: see WILHELMJ, C. M.
- McHARGUE, J. S.: see SKINNER, J. T.
- McHENRY, E. W.: see MACDONALD, D. G. H.
- See MACFARLAND, M. L.
- McINTIRE, F. C., ROTH, L. W. and RICHARDS, R. K.
In vitro histamine release, 1949, 159: 332
- , ROTH, L. W. and SPROULL, MURIEL. Histamine
release, 1951, 167: 233
- McINTYRE, A. R.: see HUMOLLER, F. L.
- McKAY, ELIZABETH A.: see BARBOUR, H. G.
- McKAY, HUGHINA: see PITTMAN, MARTHA S.
- McKIBBIN, J. M., BLACK, S., ELVEHJEM, C. A. Es-
sential nature of pantothenic acid in nutrition,
1940, 130: 365
- , MADDEN, R. J., BLACK, S. and ELVEHJEM, C. A.
Vitamin B₆ and factor W in nutrition, 1939,
128: 102
- See WESTERFELD, W. W.
- McKINLEY, W. A. and MAGOUN, H. W. Bulbar pro-
jection of trigeminal nerve, 1942, 137: 217
- See BERRY, C. M.
- See MAGOUN, H. W.
- McKITTRICK, J. B.: see GESELL, R.
- McLAIN, P. L. and RUHE, C. H. W. Relative corpuscle
and serum volumes, 1949, 156: 12
- , RUHE, C. H. W., and KRUSE, T. K. Blood volume
by bleeding and dye methods, 1951, 164: 611
- McLEAN, F. C. and HENRICH, MARIE A. Colloidal
calcium phosphate in the blood, 1938, 121: 580
- See RANSMEIER, J. C.
- McLENNAN, H. and ELLIOTT, K. A. C. Brain synthesis
of acetylcholine, 1950, 163: 605
- McLIN, E. D.: see FUHRMAN, GERALDINE J.
- McNAMARA, B. P.: see PHILIPS, F. S.
- McPHEE, GWELDA: see HEGSTED, D. M.
- McSHAN, W. H., POTTER, V. R., GOLDMAN, A., SHIPLEY,
ELVA G. and MEYER, R. K. Energy transforma-
tions during shock, 1945, 145: 93
- See CASIDA, L. E.
- See DEUTSCH, H. F.
- See MEYER, R. K.
- McSWAIN, B.: see PAGE, I. H.
- McVICAR, G. A.: see CLEGHORN, R. A.
- McWILLIAMS, H. B.: see BRUNISH, VIRGINIA H.
- MEAD, S.: see CHATFIELD, P. O.
- MEANS, J. H.: see HERTZ, S.
- MEAT
ingestion bile output, 1938, 122: 335
duodenal secretion, 1949, 158: 122
intoxication, serum phosphatase, 1949, 159: 351
- MECHANOGRAM
electrogram, 1942, 137: 268
of various muscles, 1942, 136: 625
- MECHOLYL: see ACETYL-BETA-METHYLCHOLINE
- MEDLICOTT, MARY: see SMITH, S. E.
- MEDOFF, H. S. and BONGIOVANNI, A. M. Age, sex and
species variations of blood pressure, 1945, 143:
297
- and BONGIOVANNI, A. M. Audiogenic stimulation
and blood pressure, 1945, 143: 300
- See FARRIS, E. J.
- MEDULLA OBLONGATA
anoxia and excitability of, 1942, 135: 645
cholinesterase content, 1948, 155: 61
damage during insulin shock, 1941, 131: 554
decussating pathways in, 1939, 127: 232
glycogen content, age, 1946, 146: 390
glycolysis during growth, 1944, 142: 545
lesions and respiration, 1940, 129: 719
localization of respiratory centers in, 1941, 134: 177
localized stimulation causing salivation, 1941, 133:
639
metabolism of, 1941, 132: 294; 1941, 132: 455
origin of respiratory periodicity, 1949, 158: 157
projection of trigeminal nerve in, 1942, 137: 217
reactivity of autonomic centers in, 1943, 139: 661
regulation of respiration by, 1950, 160: 385
respiration of, during development, 1942, 136: 601
respiratory centers in cat, 1941, 134: 186
respiratory effects of localized stimulation, 1940,
129: 712
stimulation and eye, 1946, 146: 379
- MEDULLARY ANIMAL
adrenaline apnea in, 1950, 160: 485
- MEER, W. J.: see BENSON, W. M.
- See EYSTER, J. A. E.
- See HERRIN, R. C.
- See YOUNG, W. B.
- MEEKER, W. R.: see GUNTHER, L.
- MEIKLEJOHN, A. P.: see EGAÑA, E.
- MEISSNER'S PLEXUS
adrenergic and cholinergic endings in, 1945, 143: 333

- MEITES, J. Estrogens and growth, 1949, 159: 281
 — and TURNER, C. W. Specificity of lactogenic hormone, 1947, 150: 394
- MELAMINE
 diuresis due to, 1947, 148: 261
- MELANOPHORES
 adrenaline, 1941, 132: 245
- MELCHER, G. W., JR. and WALCOTT, W. W. Cardiac changes and shock, 1951, 164: 832
- MELVILLE, ELEANOR V.: *see* CHAMBERS, G. H.
 — *See* HINES, H. M.
- MEMBER, S.: *see* BURGER, M.
- MEMBRANE POTENTIAL: *see* SYNOVIAL MEMBRANE
- MEMORY
 high oxygen pressure, 1945, 143: 210
- MENADIONE
 action on leukemic tissue, 1943, 139: 719
 antagonism to potassium arsenite, 1943, 139: 723
- MENAKER, W. Urinary acidity, 1948, 154: 174
- MENARCHE
 basal physiological functions, 1943, 139: 288
- MENDEL, B., HAWKINS, ROSEMARY D. and NISHIKAWARA, MARGARET. Cholinesterase levels, 1948, 154: 495
- MENDLOWITZ, M.: *see* KATZ, L. N.
- MENDOZA, M. T.: *see* CARRASCO-FORMIGUERA, R.
- MENEELY, G. R., WELLS, E. B. and HAHN, P. F.
 Radioactive red cell method to determine blood volume, 1947, 148: 531
 — *See* HAHN, P. F.
 — *See* RODES, N. D.
- MENKIN, MIRIAM F.: *see* SNODGRASS, J. M.
- MENKIN, V. ACTH and capillary permeability, 1951, 166: 518
 — Adrenal cortical extract and capillary permeability, 1940, 129: 691
 — Cortisone and capillary permeability, 1951, 164: 294; 1951, 166: 509
 — Gluconeogenesis and cellular injury, 1943, 138: 396
 — Mechanism of enhanced diabetes with inflammation, 1941, 134: 517
 — Necrosin and blood sugar level, 1946, 147: 379
 — and KADISH, M. A. Physiological effects of leukotaxine, 1938, 124: 524
- MENSTRUAL CYCLE
 cervical mucus at various times during, 1940, 129: 236
 excretion of estrogens during, 1938, 121: 98
 serum choline, 1949, 158: 347
- MENSTRUATION
 hormone deprivation theory of, 1938, 124: 1
- MENTAL ARITHMETIC
 frequency distribution of EEG, 1947, 149: 189
- MENTHA, C.: *see* SIMEONE, F. A.
- MERALLURIDE
 renal electrolyte metabolism, 1951, 167: 208
- MERANZE, D. R.: *see* GOLLUB, S.
- 2-3 MERCAPTO PROPANOL
 primary potential of, 1949, 159: 86
- MERCER, T. H.: *see* WELLS, J. A.
- MERCUHYDRIN
 uric acid excretion, 1951, 164: 156
- MERCUPURIN
 chloride excretion, 1942, 135: 593
 lymph flow, 1938, 122: 284
 potassium secretion, 1950, 161: 155
- MERCURIC CHLORIDE
 absorption from gut, 1945, 144: 468
 glucogenesis in kidney, 1947, 151: 198
 PAH accumulation in kidney slices, 1950, 161: 189
 renal electrolyte metabolism, 1951, 167: 208
 renal electrolytes, water metabolism, 1951, 167: 207
- MERCURIN
 chloride excretion, 1942, 135: 593
- MERCURY
 ions of, synovial membrane potential, 1949, 158: 64
 tubular secretion of phenol red, 1950, 161: 263
- MERCURY BICHLORIDE: *see* MERCURIC CHLORIDE
- MERLIS, J. K. Cerebrospinal fluid calcium and spinal reflex, 1940, 131: 67
- MERRELL, MARGARET: *see* GELLHORN, A.
- MERRILL, D. L.: *see* SPENCER, F. C.
- MERSALYL
 chloride excretion, 1942, 135: 593
 diuresis due to, 1944, 142: 249
 in bile fistula dog, 1951, 164: 639
 energy-rich phosphates and cardiodynamics in heart-lung preparation, 1947, 150: 739
 excretion of sodium and potassium, 1950, 162: 365
 kidney response to, 1951, 167: 708
 potassium secretion, 1950, 161: 155
 theophylline, chloride excretion, 1942, 135: 593
 tubular secretion of PAH, 1948, 154: 537
- MERTZ, E. T. Abnormal bleeding time in swine, 1942, 136: 360
 — Blood vessel defect in bleeding disease in swine, 1943, 139: 117
 — Capillary resistance in swine with bleeding disease, 1942, 138: 136
- MESANTOIN
 asphyxial depolarization potential, 1950, 160: 453
- MESCHAN, I. and QUIGLEY, J. P. Spontaneous motility of pyloric sphincter, 1938, 121: 350
 — *See* BRODY, D. A.
 — *See* QUIGLEY, J. P.
- MESENCEPHALIC LESIONS
 reproductive cycle, 1939, 126: 760
- MESENTERY
 blood flow, arrangement for measuring, 1947, 149: 733
 circulation, in hemorrhagic shock, 1947, 149: 732
- MESSER, F.: *see* MCCHESENEY, E. W.
- METABOLISM (ORGANISM AS A WHOLE)
 accelerated, diet and survival, 1949, 159: 33
 acclimatization to cold, 1951, 167: 651
 adrenaline, 1949, 156: 114
 agene intoxication, 1949, 159: 298
 albumin, 1951, 164: 167
 amniotin or theelin, 1938, 122: 113
 anabolic, androgens, 1950, 163: 332
 hormones, 1948, 155: 255
 steroids, 1950, 160: 53

METABOLISM (ORGANISM AS A WHOLE)

anterior pituitary, insulin 1938, 124: 774
 anterior pituitary and adrenal cortex in, 1940, 128: 552

body size, growth rate, 1950, 161: 294
 body weight, 1942, 138: 182
 chloralose anesthesia, 1941, 131: 561
 deep hypothermia, 1943, 140: 15
 during fasting, previous diet, 1949, 158: 57
 during work, 1942, 136: 365
 ergotoxine hyper- and hypothermia, 1950, 163: 62
 growth, 1938, 122: 480
 hemorrhage, trauma, 1947, 151: 38
 hormones, 1938, 122: 296; 1941, 132: 446
 hypophysectomy, 1938, 122: 373; 1939, 127: 553
 hypothermia, 1941, 132: 685
 immersion hypothermia, 1949, 157: 436
 in swimming, 1944, 142: 142
 iodine ingestion, 1941, 134: 623
 local ischemia in exercise, 1942, 138: 21
 mineral, and feeding of permutit Z, 1951, 164: 695
 of athletes and non-athletes during exercise, 1940, 129: 166
 of men in various environments, 1948, 152: 233
 physical work, thermal environment, 1941, 134: 668
 posture, 1938, 122: 563
 recovery from exercise, alkaline reserve, 1948, 152: 465
 requirement for maintenance of posture, 1940, 129: 776
 response to cold, after adrenalectomy, 1938, 122: 435
 thyroid, 1950, 163: 81
 serum chloride, 1943, 139: 80
 thyroid compounds, 1944, 141: 35
 thyroidectomy, amniotin, 1938, 124: 114
 thiouracil, 1946, 146: 440
 vitamin D and, in hypophysectomized animals, 1939, 127: 554

METABOLISM, BASAL: *see* BASAL METABOLIC RATE

METANDREN: *see* TESTOSTERONE, METHYL

METCOFF, J. and FAVOUR, C. B. Blood and plasma partitions in growing rat, 1944, 141: 695

— and FAVOUR, C. B. Total plasma protein and hemoglobin in growing rat, 1944, 142: 94

METEROLOGICAL FACTORS

blood pH, 1940, 130: 9

METHACHOLINE: *see* ACETYL-BETA-METHYL-CHOLINE

METHADONE: *see* AMIDONE

METHANOL

combustion of, 1950, 163: 614
 inhibition of oxidation by ethanol, 1950, 163: 619
 survival to explosive decompression, 1950, 163: 401

METHEMOGLOBIN

equilibrium of O₂ and hemoglobin, 1942, 137: 56
 individual and age variation in formation, 1949, 159: 47
 of blood, produced by aniline, responses to, 1943, 139: 64
 tagged cells, for measurement of red cell volume, 1948, 153: 322

METHENY, ELEANOR, BROUHA, L., JOHNSON, R. E. and

FORBES, W. H. Comparative responses of women and men to exercise, 1942, 137: 318

METHIONINE

benzene toxicity in protein deficient animals, 1947, 148: 358

prevention of fatty liver by, 1945, 144: 621

primary potential of, 1949, 159: 86

renal clearance of, 1947, 149: 133

renal hypertension, 1950, 162: 370

METHOXY BIS(β -CHLOROETHYL)AMINE

inhibition of brain cholinesterase, 1950, 160: 192

METHOXYETHYL BIS(β -CHLOROETHYL)AMINE

convulsant activity of, 1950, 160: 197

METHYL BIS(β -CHLOROETHYL)AMINE: *see* NITROGEN MUSTARD

METHYL BIS(CYANOETHYL)AMINE

convulsant activity of, 1950, 160: 197

METHYL BIS(β -CYANOETHYL)AMINE

inhibition of brain cholinesterase, 1950, 160: 192

METHYL BIS(THIOCYANOETHYL)AMINE

convulsant activity of, 1950, 160: 198

METHYL FLUOROACETATE: *see* FLUOROACETATE, METHYL

2-METHYL NAPHTHOQUINONE

action potential of nerve, muscle, 1949, 158: 465

N-METHYL PAREDRINE

ballistocardiograph, 1941, 134: 419

METHYL SALICYLATE: *see* SALICYLIC ACIDS, METHYL

METHYL TESTOSTERONE: *see* TESTOSTERONE, METHYL

METHYL THIOURACIL: *see* THIOURACIL, METHYL-

METHYL THIOUREA: *see* THIOUREA, METHYL-

3-METHYL- Δ -ANDROSTADIENOL-17 β : *see* ANDROSTADIENOLS

17-METHYL- Δ -ANDROSTENEDIOL-3 β , 17 β : *see* ANDROSTENEDIOLS

1-METHYL-3-CARBOXYLAMINE-6-PYRIDONE

N-methylnicotinamide excretion, 1950, 160: 317

3(N-METHYL-N-2-CHLOROETHYL)-AMINOMETHYL THIANAPHTHENE HCL

inhibition of hyperglycemia with, 1951, 165: 68

6-METHYL-ISO XANTHOPTERIN: *see* XANTHOPTERIN, 6-METHYL-ISO-2-METHYL-1,4 NAPHTHAQUINONE: *see* MENADIONE

METHYL-PHENYL-ETHYL HYDANTOIN

acetylcholine metabolism, 1947, 151: 346

7-METHYL-XANTHOPTERIN: *see* XANTHOPTERIN, 7-METHYL- β -METHYLACETYLCHOLINE

secretion of bile, 1939, 126: 133

METHYLANDROSTANEDIOL: *see* ANDROSTANEDIOLS

17-METHYLANDROSTANOL-17 α , ONE-3: *see* ANDROSTANOLS

 β -METHYLCHOLINE CHLORIDE

urethane of, pupillary response to, 1942, 136: 173

METHYLENE BLUE

brain metabolism, 1942, 137: 327

hemoglobin, 1941, 132: 311

role in cellular respiration, 1938, 122: 404

3,3'-METHYLENEBIS(4-HYDROXYCOUMARIN: *see* DICUMAROL

1-METHYLESTRADIOL: *see* ESTRADIOL, 1-METHYL-

1-METHYLESTRONE: *see* ESTRONE, 1-METHYL-

- METHYLETHYL β -CHLOROETHYLAMINE**
convulsant activity of, 1950, 160: 197
inhibition of brain cholinesterase, 1950, 160: 192
- METHYLGUANIDINE**
acetylcholine synthesis and stimulation, 1946, 147: 384
- N-METHYLNICOTINAMIDE**
'benemid' and excretion of, 1951, 166: 631
in urine, blood, and feces, on various diets, 1947, 148: 624
renal tubular elimination of, 1950, 160: 311
urinary excretion of, on normal and restricted diets, 1947, 149: 145
- N-O-METHYLPHENOXYETHYL-N-BENZYL- β -CHLOROETHYLAMINE**
blocking of epinephrine cardioacceleration, 1950, 163: 485
- METRAZOL**
acetylcholine of brain, 1950, 162: 472
brain metabolism, 1945, 143: 38
cerebral blood flow, 1943, 138: 426
EEG, 1941, 132: 232
inhibition of brain cholinesterase, 1950, 160: 193
oxygen consumption of brain in living cat, 1947, 149: 530
oxygen poisoning, 1945, 144: 276
release of phosphate from brain, 1946, 145: 545
respiration at high altitude, 1949, 156: 55
- METTLER, CECILIA C.:** *see* METTLER, F. A.
- METTLER, F. A. and METTLER, CECILIA C.** Role of the neostriatum, 1941, 133: 594
— *See* ADES, H. W.
- METZ, D. B.:** *see* ZWEIFACH, B. W.
- METZNER, W. R. T.:** *see* LEIMDORFER, A.
- MEYER, A. E. and McEWEN, JEAN P.** Bile salts and intestinal motility, 1948, 153: 386
— and McEWEN, JEAN P. Drugs and serosa and mucosa of intestine, 1947, 148: 715
- MEYER, D. K.** Sodium flux through gills, 1951, 165: 580
- MEYER, J. H., GRUNERT, R. R., ZEPPLIN, MARIE T., GRUMMER, R. H., BOHSTEDT, G. and PHILLIPS, P. H.** Dietary levels of sodium and potassium, 1950, 162: 182
— *See* GRUNERT, R. R.
- MEYER, JULIA, LENDRUM, BESSIE and KATZ, L. N.** Use of saline in shock after venous occlusion of limb, 1945, 145: 151
— *See* KATZ, L. N.
— *See* WISE, W.
- MEYER, L. M.:** *see* BERLIN, N. I.
- MEYER, O. O.:** *see* SPOONER, MARYLOO
- MEYER, R. K. and BIDDULPH, C.** Gonadotropic secretion and estradiol, 1941, 134: 141
—, McSHAN, W. H., GOLDMAN, A. and SHIPLEY, ELVA G. Blood changes in tourniquet shock, 1946, 147: 66
— *See* BIDDULPH, C.
— *See* BYRNES, W. W.
— *See* CASIDA, L. E.
— *See* DEUTSCH, H. F.
— *See* HERTZ, R.
— *See* KUPPERMAN, H. S.
- *See* McSHAN, W. H.
— *See* ROTHCHILD, I.
— *See* SHIPLEY, ELVA G.
- MFA:** *see* FLUOROACETATE, METHYL
- MIC:** *see* ISORRHEIC CONCENTRATIONS
- MICHAEL, I. E.:** *see* CAHOON, D. H.
- MICHAEL, S. T.** Uric acid excretion and blood lactic acid, 1944, 141: 71
—, LOONEY, J. M. and BORKOVIC, E. J. Uric acid excretion and hippuric acid synthesis, 1944, 140: 548
- MICHAELIS, F.:** *see* FRIEDMAN, M.
- MICHAELIS, M., ARANGO, N. I. and GERARD, R. W.** Inhibition of brain dehydrogenases, 1949, 157: 463
- MICHALSKI, J. V.:** *see* SZEPSENWOL, J.
- MICHAUD, L.**
— *See* MAASS, A. R.
— *See* RUEGAMER, W. R.
- MICHIE, CATHERINE R.:** *see* RING, G. C.
- MICHIELS, PATRICIA M.:** *see* WINBURY, M. M.
- MICKELSEN, O.**
— *See* HENSCHER, A. F.
— *See* KEYS, A.
— *See* TAYLOR, H. L.
- MIDBRAIN**
hypothalamus-sympathetic system excitability of, 1942, 135: 504
metabolism of, 1941, 132: 455
- MIDDLETON, H. H.:** *see* MIDDLETON, S.
- MIDDLETON, S.** Renin and angiotonin in hypotension and shock, 1944, 141: 132
— and WIGGERS, C. J. Effects of renin and angiotonin on circulatory system, 1944, 141: 128
— and WIGGERS, C. J. Pectin solutions and post-hemorrhagic hypotension, 1943, 140: 326
—, MIDDLETON, H. H. and GRUNDFEST, H. Fibers in vagus nerve, 1950, 162: 545
—, MIDDLETON, H. H. and TOHA, J. Vagal cardio-stimulation, 1949, 158: 31
— *See* HOFFMANN, F.
— *See* WIGGERS, H. C.
- MILK**
bile volume, 1938, 122: 328
boron of, 1939, 127: 691
dog, composition of, 1940, 129: 631
efficiency of production, 1938, 122: 150
secretion of radio-calcium in, 1950, 162: 579
skimmed, insulin resistance produced by, 1942, 136: 598
transmission of 3,3'-METHYLENEBIS(4-HYDROXY-COUMARIN) through, 1945, 143: 239
- MILLER, A. J.**
— *See* AKMAN, L. C.
— *See* HWANG, W.
- MILLER, A. KATHRINE:** *see* BEYER, K. H.
- MILLER, A. T., JR.** Biliary excretion of dye T-1824, 1947, 151: 229
— Blood studies in acclimatization to carbon dioxide, 1940, 129: 524
— Mixing curve of dye T-1824, 1947, 151: 234
- MILLER, C. C.:** *see* FREEMAN, N. E.

See page iii for guide to use of index

- MILLER, G. E., DANZIG, L. S. and TALSOFF, J. H.
Drugs and excretion of uric acid, 1951, 164: 155
- MILLER, H. C. and DARROW, D. C. Electrolytes of muscle and tetanic stimulation, 1940, 129: 264
- and DARROW, D. C. K in serum and muscle and exercise, 1941, 132: 801
- and DARROW, D. C. Muscle electrolyte and serum potassium, 1940, 130: 747
- MILLER, HELEN R.: *see* HESTAND, W. A.
- MILLER, J. P.: *see* LAMBERT, G. F.
- MILLER, L. L.: *see* CANTAROW, A.
- MILLER, R. A., HEAGAN, BEATRICE S. and TAYLOR, C. B. Anoxia from exposure to low barometric pressure, 1947, 150: 1
- *See* RIDDLE, O.
- MILLER, S. P. and KUYPER, A. C. Insulin and adrenalectomy in uric acid excretion, 1938, 123: 625
- MILLER, ZELMA B., FRIEDMAN, MARIAN and DETEL, H. J., JR. Caloric restriction and blood, 1946, 147: 423
- MILLICAN, R. C.: *see* TABOR, H.
- MILMAN, N.: *see* KARPOVITCH, P. V.
- MILLS, C. A. B vitamin requirements, 1948, 153: 31
- Environmental temperatures and thiamine requirements, 1941, 133: 525
- and OGLE, CORDELIA. Ease of body heat loss in development and function, 1939, 125: 36
- , COTTINGHAM, ESTHER, and MILLS, MARJORIE. Environmental temperature and vitamin K deficiency, 1944, 141: 339
- , COTTINGHAM, ESTHER and TAYLOR, ELIZABETH. Environmental temperature and dietary requirement, 1947, 149: 376
- MILLS, MARJORIE: *see* MILLS, C. A.
- MILLS, W. B.: *see* GILSON, A. S., JR.
- MILMAN, ANNE E., DEMOOR, P. and LUKENS, F. D. W. Growth hormone and insulin nitrogen balance, 1951, 166: 354
- MINARD, D. Presence and distribution of histamine in blood, 1941, 132: 327
- MINERAL OIL
absorption of carotene, 1941, 132: 206
emulsified, non-absorption of, 1950, 162: 80
- MINX
vitamin A reserves of, 1938, 123: 695
- MINUTE VOLUME
anoxia, 1947, 148: 394; 1947, 148: 409
at high altitude, 1946, 146: 616
response to CO₂ breathing, 1947, 149: 43
- MIRSKY, I. A. Insulin and protein metabolism after nephrectomy, 1938, 124: 569
- and NELSON, N. Pancreas and liver in oxidation of ethyl alcohol, 1939, 127: 303
- , NELSON, N., GRAYMAN, ISABELLE and KORENBERG, M. Studies on depancreatized ducks, 1941, 135: 223
- *See* ABRAMSON, D. I.
- *See* WATERS, E. T.
- MISRAHY, G. A. Metabolism of histamine in the embryo, 1946, 147: 462
- and SALAMA, S. Histamine excretion in parathyroidectomized dogs, 1947, 150: 420
- *See* WÉGLIA, R.
- MISSURO, V., DILL, D. B. and EDWARDS, H. T. Adrenal cortical extract in rest and work, 1938, 121: 549
- MITCHELL, E. R.: *see* THORN, G. W.
- MITCHELL, H. H., GLICKMAN, N., LAMBERT, E. H., KEETON, R. W. and FAHNESTOCK, M. K. Diet and tolerance of man to cold, 1946, 146: 84
- *See* GLICKMAN, N.
- *See* KEETON, R. W.
- MITOCHONDRIA
cholinesterase in, 1951, 165: 620
composition during regeneration, 1949, 157: 139
- MITOSIS
chromatin, 1945, 143: 229
in corneal epithelium, 1944, 141: 689
liver fractions, 1945, 143: 228
- MITRAL STENOSIS
experimental production of, 1951, 164: 573
- MODLINGER, R.: *see* HOWARD, F.
- MOE, G. K. and VISSCHER, M. B. Mechanism of failure in isolated mammalian heart, 1939, 125: 461
- , CAPO, L. R. and PERALTA, R. B. Action of tetraethylammonium, 1948, 153: 601
- , HARRIS, A. S. and WIGGERS, C. J. Initiation of ventricular fibrillation, 1941, 134: 473
- , RENNICK, BARBARA R., CAPO, L. R. and MARSHALL, M. R. Tetraethylammonium and cardiovascular reflexes, 1949, 157: 158
- *See* BARNES, R. H.
- *See* FREYBURGER, W. A.
- *See* HARRIS, A. S.
- *See* PARDO, E. G.
- *See* WÉGLIA, R.
- *See* WOOD, E. H.
- MOE, JEAN G.: *see* KOCHANIAN, C. D.
- MOELLER, A. N.: *see* VANDEMARK, N. L.
- MOENS' FORMULA
velocity of pulse wave, 1945, 144: 521
- MOHAMED, M. S. and BEAN, J. W. Alterations of CO₂ and intestinal blood flow, 1951, 167: 413
- MOHNEY, J. B., MORGAN, M. W., JR., OLIMSTED, J. M. D. and WAGMAN, I. H. Sympathetic pathways to ciliary muscles of the eye, 1942, 135: 759
- MOLANO, P. A.
— *See* BOOKER, W. M.
- *See* FRENCH, D. M.
- MOLLOY, MARIE C.: *see* SELIGMAN, A. M.
- MOLNAR, G. W.: *see* ADOLPH, E. F.
- MOLTING
erythrocyte count, 1943, 138: 485
thyroid gland, 1949, 158: 338
- MOLYBDENUM
determination of, in biological fluids, 1942, 137: 507
nutritional significance of, 1942, 137: 506
- MONAHAN, E. P. and FREEMAN, S. Parathyroid and serum calcium independent of kidney, 1944, 142: 104

- and LALANNE, G. G. Metabolism during agene intoxication, 1949, 159: 298
- See HOUGH, V. H.
- MONKE, J. V. Gum acacia and the oxygenation of red cells, 1941, 132: 529
- MONKEY (studies of—in)
- acetylcholine, 1948, 153: 114
- adrenal glands, 1938, 123: 705; 1942, 135: 535
- anesthesia, 1940, 129: 650
- antithyroid activity of ergothioneine, 1949, 156: 378
- atropine, 1943, 138: 251; 1943, 139: 178
- brain metabolism, 1945, 143: 33
- cerebral blood flow, 1943, 138: 421
- cerebral cortex and peripheral circulation, 1938, 121: 49
- cerebral cortex and strychnine, 1941, 132: 776
- cortical clonus, 1942, 137: 681
- cortical stimulation, 1942, 135: 699; 1949, 158: 474
- creatine and creatinine excretion, 1940, 130: 505
- DDT, 1946, 147: 127
- deep hypothermia, 1943, 140: 12
- denervated iris, 1940, 130: 268; 1942, 135: 535
- electrical activity of cerebral cortex, 1946, 147: 127; 1948, 153: 114; 1950, 161: 426
- electrocardiogram in, 1941, 131: 687; 1941, 134: 319
- emotional excitation, 1938, 121: 609; 1939, 125: 731
- enterocrinin, 1938, 121: 483
- enzymatic conversion of -CN to -CNS, 1948, 153: 351
- erythrocyte permeability, 1948, 152: 113
- fluid volumes, 1943, 140: 12; 1947, 148: 457
- frontal lobectomy and blood sugar level, 1947, 149: 252
- G forces, 1946, 146: 39; 1947, 150: 7; 1948, 152: 22; 1948, 152: 158; 1949, 156: 1
- gall bladder and liver lymphatics, 1941, 133: 80
- gravitational shock, 1951, 165: 542
- hepatectomy, 1938, 121: 203
- hypoglycemia, 1940, 128: 324
- hypothalamus, 1938, 122: 81; 1940, 129: 650; 1942, 136: 378
- inulin and creatinine clearance, 1938, 122: 136
- labyrinthectomy, 1938, 121: 392
- malaria, 1948, 152: 113
- medullary respiratory centers, 1941, 134: 177
- nervous control of esophagus, 1948, 154: 347
- physiological delimitation of central neurones, 1939, 127: 620
- pressor paths not blocked by TEA, 1950, 163: 290
- proprioceptive reflexes, 1948, 154: 434
- protein of pericardial fluid, 1940, 129: 637
- prothrombin of blood, 1941, 132: 242
- R. Q. of hexoses, 1944, 141: 250
- radioactive phosphorus of tooth enamel, 1941, 133: 112
- respiration, 1947, 150: 76; 1947, 150: 79
- salivatory motor nuclei, 1942, 136: 720
- sensory-induced seizures, 1950, 161: 430
- spinal origin of preganglionic fibers to limbs, 1942, 135: 324
- spinal shock, 1940, 129: 516
- sympathetic pathways to ciliary muscle, 1942, 135: 759
- uterine responses, 1938, 124: 1; 1942, 137: 457
- vagus nerve and bile secretion, 1938, 121: 270
- voluntary ingestion of water, 1938, 122: 668
- MONKHOUSE, F. C., DRECHSLER, KATHERINE, WEBER, G. and FIDLAR, E. Heparin and thrombin inactivation, 1951, 165: 195
- MONROE, R. A. and TURNER, C. W. Oral activity of thyroxines, 1949, 156: 381
- and TURNER, C. W. Thyroxine metabolism in goat, 1948, 154: 1
- MONTGOMERY, M. L., ENTENMAN, C. and CHAIKOFF, I. L. Estimation of anti-fatty liver factor of pancreas, 1944, 141: 216
- , ENTENMAN, C. and CHAIKOFF, I. L. Pancreatic juice source of anti-fatty-liver factor, 1947, 148: 239
- , SHELIN, G. E. and CHAIKOFF, I. L. Elimination of labeled sodium by pancreas, 1941, 131: 578
- See ENTENMAN, C.
- See SHELIN, G. E.
- MONTGOMERY, M. M.: see GLICKMAN, N.
- MOON, H. D. see INGLE, D. J.
- MOORE, A. U.: see MARCUSE, F. L.
- MOORE, J. C., SHADLE, O. W. and LAWSON, H. C. Circulating red cell volume, 1948, 153: 322
- See LAWSON, H. C.
- See OVERBEY, D. T.
- MOORE, L. A. and SYKES, J. F. Cerebrospinal fluid pressure and vitamin A deficiency, 1940, 130: 684; 1941, 134: 436
- See SYKES, J. F.
- MOORE, R. M. and DENNIS, J. pH values in blood, 1938, 123: 441
- and WINGO, W. J. Blood level of magnesium and anesthetic effects, 1942, 135: 492
- See DENNIS, J.
- MOOSLIN, K.: see LEEDS, S. E.
- MORALES, P. A., CROWDER, C. H., FISHMAN, A. P., MAXWELL, M. H. and GOMEZ, D. M. Significance of urinary appearance time, 1950, 163: 454
- MOREAU, L. Shock due to head injury in frog, 1948, 155: 92
- , BALISTOCKY, M. and HEILBRUNN, L. V. Shock due to electrical injury, 1948, 154: 38
- MOREIRA, M. F., JOHNSON, R. E., FORBES, A. P. and CONSOLAZIO, F. C. Adrenal cortex and work in heat, 1945, 143: 169
- See BARMAN, J. M.
- MORGAN, AGNES F., AXELROD, HELEN E. and GROODY, MARY. Effect of D₂ in single massive doses, 1947, 149: 333
- , GROODY, MARY and AXELROD, HELEN E. Pyridoxine deficiency and dietary protein level, 1946, 146: 723
- See AXELROD, HELEN E.
- See HENDRICKS, JEANNETTE B.
- See WEAST, ELSIE O.

See page iii for guide to use of index

- MORGAN, D. P. and GRODINS, F. S. Respiration during exercise in intact dog, 1950, 162: 54
 — See GRODINS, F. S.
- MORGAN, E. A.: see WHATMORE, G. B.
- MORGAN, J. A., THOMSON, J. D. and HINES, H. M. Denervation atrophy of muscle, 1948, 153: 109
 — See THOMSON, J. D.
- MORGAN, M. W., JR., OLMSTED, J. M. D. and WATROUS, W. G. Sympathetic action in accommodation for far vision, 1940, 128: 588
 — See LAYTON, A.
 — See MOHNEY, J. B.
 — See OLMSTED, J. M. D.
- MORGAN, R.: see QUIMBY, F. H.
- MORISON, B. R.
 — See DEMPSEY, E. W.
 — See MORISON, R. S.
- MORISON, R. S. Response of uterine muscle to stimulation, 1940, 128: 372
 — and ACHESON, G. H. Acetylcholine and adrenaline on nictitating membrane, 1938, 121: 149
 —, and DEMPSEY, E. W. Thalamo-cortical relation, 1942, 135: 281
 —, and DEMPSEY, E. W. Thalamocortical augmentation and repetition, 1943, 138: 297
 — and LISSAK, K. Action of piperidinomethylbenzodioxane (933F), 1938, 123: 404
 —, DEMPSEY, E. W. and MORISON, B. R. Cortical responses to stimulation of brain stem, 1941, 131: 732
 —, DEMPSEY, E. W. and MORISON, B. R. Propagation of cortical potentials, 1941, 131: 744
 —, FINLEY, K. H. and LOTHROP, GLADYS N. Influence of basal forebrain on electrocorticogram, 1943, 139: 410
 — See DEMPSEY, E. W.
 — See DOLE, V. P., JR.
- MORITA, Y. and ORTEN, J. M. Glycogen in liver and diabetes, 1950, 161: 545
 — and ORTEN, J. M. Phosphate and glucose in diabetic rat, 1950, 162: 416
- MORLEY, E. H.: see INGLE, D. J.
- MORPHINE
 acetylcholine metabolism, 1947, 151: 346
 activity of adenosine-triphosphatase, 1948, 152: 90
 anesthesia with, 1943, 140: 177
 antidiuretic action of, 1947, 148: 261
 asphyxial depolarization potential, 1950, 160: 453
 cardiovascular factors, 1949, 159: 383
 hemorrhagic, traumatic shock, 1947, 148: 271
 intramuscular and blood pressures, 1945, 143: 90
 nerve-free smooth muscle of chick amnion, 1940, 131: 528
 resistance against, 1938, 123: 762
 survival to explosive decompression, 1950, 163: 401
 transportation in colon, 1940, 131: 428
 vasodepressor responses to, 1949, 157: 259
- MORRIS, C. R., GROSSMAN, M. I. and IVY, A. C. Enterogastrone and rumenal ulcers, 1947, 148: 382
- MORRIS, D. L. and STEINER, C. N. Parenteral infusion of glycogen, 1950, 161: 554
- MORRIS, PORTIA G. and STEENBOCK, H. Citrate lithiasis, 1951, 167: 698
- MORSE, MINERVA and SCHULTZ, F. W. Blood serum changes after exercise, 1940, 128: 417
 —, CASSELS, D. E. and SCHULTZ, F. W. Blood volume of normal children, 1947, 151: 448
 —, CASSELS, D. E. and SCHULTZ, F. W. Tissue fluid volumes in children, 1947, 151: 438
 — See SCHULTZ, F. W.
- MORTON, J. H.: see RASHKIND, W. T.
- MORTON, M. E.: see PERLMAN, I.
- MOSES, C. Intramuscular pressure measurements, 1947, 150: 488
 — See BOATMAN, J. B.
- MOSES, L. E. Hyperthyroidism and cardiac glycogen, 1944, 142: 686
- MOSS, R. E.: see INGELFINGER, F. J.
- MOSS, W. G. and JOHNSON, V. Stretch and stroke volumes of cardiac ventricles, 1943, 139: 52
 — and WAKERLIN, G. E. Nervous system in renal hypertension, 1950, 161: 435
 — See SHULER, R. H.
 — See WAKERLIN, G. E.
- MOTILITY (OF)
 gastrointestinal tract, 1939, 127: 301
 hypothalamic stimulation, 1940, 130: 81
 potassium deficiency, 1951, 164: 263
 volume of gas in digestive tract, 1947, 149: 688
- guinea pig uterus, 1939, 125: 549
- intestine, anoxia 1943, 140: 121
 bile, 1939, 126: 85
 bile salts, 1948, 153: 386
 blood flow, 1951, 167: 413
 CO₂, 1949, 158: 119
 hemorrhage, 1944, 142: 261
 x-irradiation, 1951, 165: 376
 propulsive, intestinal length, 1951, 167: 399
 spermatozoa, energy source, 1941, 134: 542
 O₂, 1943, 138: 512
 spontaneous of pyloric sphincter, 1938, 121: 350
- MOTION SICKNESS
 adaptation to, 1948, 154: 443
 body position, medication, 1946, 146: 458
 cold sweating in, 1944, 141: 173
- MOTLEY, H. E.: see BERNTHAL, T.
- MOTLEY, H. L., COURNAND, A., WERKO, L., HIRMELSTEIN, A. and DRESDALE, D. Acute anoxia and pulmonary artery pressure, 1947, 150: 315
 — See COURNAND, A.
 — See RILEY, R. L.
- MOTOR CORTEX: see CEREBRAL HEMISPHERES, CORTEX
- MOTOR NERVES
 accommodation in, 1942, 136: 629
 activity, during slight voluntary effort, 1941, 133: 658
 fibers, re-innervation of denervated muscle fibers with adjacent, 1945, 144: 477
 repetitiousness of, 1938, 121: 431
 neurons, electrical and functional activity of, 1949, 159: 15
 permanent disability due to high oxygen pressures, 1945, 143: 662

- polyphasic action potentials of, 1943, 139: 652
 recovery cycle of, 1938, 123: 388
 sensitization of, by partial denervation, 1939, 126: 731
 spinal, chromatolysis and interaction of, 1949, 159: 233
 to colon, 1942, 138: 83
- MOTOR NUCLEI**
 for salivation, 1942, 136: 723
- MOTT, C. R.:** *see* FENNING, C.
- MOUFLON:** *see* SHEEP, wild
- MOUSE**
 abdominal chemoreceptor in, 1946, 147: 654
 acclimatization to high oxygen, 1944, 142: 468
 acid secretion in stomach, 1951, 166: 456
 acquired resistance to trauma, 1945, 143: 402
 anesthesia in, 1942, 137: 259
 anoxia in, 1944, 142: 310; 1948, 153: 10; 1948, 153: 16; 1949, 156: 328; 1949, 158: 113; 1950, 161: 307; 1951, 167: 171
 bioelectric phenomena in, 1946, 146: 405
 blood pressure measurements in, 1948, 153: 330
 calorie restriction in, 1948, 154: 517
 CBA strain, female, hemoglobin in, 1938, 124: 511
 C₃H, ovariectomized, adrenal response in, 1949, 157: 193
 C₃H-male, caloric intake and fertility in, 1951, 167: 375
 cholinesterase in brain, 1948, 153: 436
 diabetes in, 1950, 160: 103
 effect of adrenalectomy, 1939, 126: 368; 1940, 131: 441; 1941, 134: 8; 1941, 134: 72; 1951, 167: 321
 adrenaline, 1940, 130: 543
 environmental temperature, 1947, 150: 331; 1950, 162: 24; 1950, 163: 92
 steroid hormones, 1939, 127: 751; 1940, 129: 547; 1941, 134: 72; 1942, 135: 567; 1944, 142: 315; 1946, 145: 549; 1947, 151: 126; 1948, 152: 257; 1948, 155: 255; 1948, 155: 262; 1948, 155: 265; 1949, 158: 51; 1949, 159: 269
 thyroxine, 1947, 150: 336; 1950, 162: 24; 1951, 165: 639; 1951, 167: 171
 ferritin from kidney, 1950, 160: 1
 fluid distribution in shock, 1951, 167: 517
 gas exchange and helium in, 1951, 164: 248
 glutathione protection against potassium in, 1951, 164: 766
 glycotrophic substance of anterior pituitary, 1939, 128: 274
 goldthioglucose and obesity, 1950, 162: 428
 growth, food consumption, 1950, 160: 253
 phosphorus metabolism in, 1942, 138: 177
 heat loss in, 1939, 125: 38
 heparinized, experimental hemophilia in, 1942, 135: 547
 hereditary dwarf, fasting blood sugar of, 1939, 125: 459
 hereditary obesity and temperature regulation in, 1948, 152: 197
 hypothermia in, 1942, 137: 259; 1951, 166: 77; 1951, 166: 92
 induced ovulation in, 1941, 132: 405; 1946, 145: 387
 iodine fixation in thyroid, 1941, 134: 550
 lens opacity in, 1940, 130: 543
 liver extract and sleep in, 1939, 125: 499
 liver fat in, 1946, 147: 746
 metabolic rate in, 1940, 129: 127; 1946, 147: 284; 1946, 147: 527; 1947, 149: 449; 1951, 165: 651
 motor integration in, 1943, 139: 745
 muscular activity and bleeding volume in burned shock, 1946, 146: 367
 nitrogen narcosis in, 1951, 166: 699
 oxidation of carbon monoxide in, 1950, 162: 561
 pancreatectomy in, 1950, 160: 103
 placental toxin in, 1946, 147: 250; 1946, 147: 255; 1947, 149: 123
 pocket, salt excretion in, 1948, 154: 163
 water balance in, 1950, 162: 33
 proteolytic activity of serum, 1951, 166: 485
 renal tubular secretion of phenol red, 1950, 161: 259
 resistance to acceleration, 1945, 143: 262; 1946, 146: 39
 respiration in, 1947, 150: 76; 1947, 150: 79
 swelling following ischemia, 1950, 162: 226
 thyroid secretion rate in, 1947, 150: 688
 tolerance to heat and dehydration, 1947, 151: 564
 toxicity of Na phenylacetate and Na mandelate to, 1945, 143: 275
 of sea water, 1950, 163: 370
 ultraviolet radiation and body weight, 1943, 138: 378
 vitamin B of whole blood, 1950, 163: 79
 vitamin E deficiency in, 1940, 131: 263
 x-irradiation syndrome in, 1949, 159: 269; 1951, 164: 546; 1951, 165: 639; 1951, 165: 665; 1951, 167: 321
- MOYER, C. A. and BEECHER, H. K.** Central stimulation of respiration during hypoxia, 1942, 136: 13
 — and BEECHER, H. K. Hering-Breuer reflexes under evipal anesthesia, 1942, 136: 7
 — *See* GESELL, R.
- MOYER, J. H. and HANDLEY, C. A.** The problem of renal vascular shunts, 1951, 165: 548
 —, CONN, H. L., MARKLEY, K. and SCHMIDT, C. F. Renal vascular by-passes, 1950, 161: 250
- MRAZEK, R. G.:** *see* BRISKIN, H. L.
- MRAZEK, R. G., JR. and REED, C. I.** Muscular fatigue and solubility of myosin, 1947, 149: 177
- MUCIC ACID**
 blood coagulation, 1940, 130: 576
- MUCOPROTEINS**
 of gastric juice, 1950, 162: 136
- MUDGE, G. H.** Inhibitors and renal electrolyte metabolism, 1951, 167: 206
 — Potassium accumulation in kidney slices, 1951, 165: 113
 — and TAGGART, J. V. Acetate and PAH excretion, 1950, 161: 191
 — and TAGGART, J. V. DNP and tubular transport, 1950, 161: 173
 —, AMES, A., III, FOULKS, J. and GILMAN, A. Renal secretion of potassium, 1950, 161: 151

- MUDGE, G. H., FOULKS, J. and GILMAN, A. Excretion of electrolytes, 1949, 158: 218
- , FOULKS, J. and GILMAN, A. Potassium secretion and dehydration, 1950, 161: 159
- MUELLER, C. B., SURTSHIN, A., CARLIN, M. R. and WHITE, H. L. Sodium and water excretion, 1951, 165: 411
- MÜLLER, O. H.: *see* HALL, V. E.
- MÜLLER'S EXPERIMENT
in dogs with interatrial septal defects, 1950, 162: 511
- MUHRER, M. E., BOGART, R. and HOGAN, A. G. Estimation of platelet fragility, 1944, 141: 449
- , HOGAN, A. G. and BOGART, R. Defective coagulation mechanism in swine blood, 1942, 136: 355
- MUIRHEAD, E. E., LACKEY, R. W., BUNDE, C. A. and HILL, J. M. Hypotension after intravenous injection, 1947, 151: 516
- *See* ASHWORTH, C. T.
- *See* GROLLMAN, A.
- *See* VANATTA, J.
- MULDER, A. G. and CRANDALL, L. A., JR. Cerebral metabolism in fat fed dogs, 1942, 137: 436
- *See* AMBERSON, W. R.
- MULINOS, M. G. and POMERANTZ, L. Hormonal influences on adrenal weight, 1941, 132: 368
- and SHULMAN, I. Vasoconstriction from a deep inspiration, 1939, 125: 310
- , SPINGARN, C. L. and LOJIN, MARY E. Desoxycorticosterone and diabetes-like condition, 1941, 135: 102
- MULLICK, D. N., ALFREDSON, B. V. and REINEKE, E. P. Thyroid and electrocardiogram, 1948, 152: 100
- MULLIN, F. J. and KLEITMAN, N. Auditory stimuli necessary to awaken the sleeper, 1938, 123: 477
- , DENNIS, J. and CALVIN, D. B. Blood potassium in tetany and asphyxia, 1938, 124: 192
- , HASTINGS, A. B. and LEES, W. M. Neuromuscular response to salt content of C.S. fluid, 1938, 121: 719
- MULLINS, L. J., FENN, W. O., NOONAN, T. R. and HAEGE, LORRAINE F. Permeability of erythrocytes to radioactive potassium, 1941, 135: 93
- *See* FENN, W. O.
- MULTILOCULAR ADIPOSE TISSUE: *see* BROWN ADIPOSE TISSUE
- MUNRO, F. L. and MUNRO, MURIEL P. Interaction of prothrombin A and B, 1947, 149: 95
- , HART, E. R., MUNRO, MURIEL P. and WALKLING, A. A. Prothrombin A and B following hepatectomy, 1945, 145: 206
- *See* MUNRO, MURIEL P.
- MUNRO, MURIEL P. and AVERY, ANNABEL. Protein components after hepatectomy, 1946, 146: 673
- and MUNRO, F. L. Reversible inactivation of prothrombin, 1947, 150: 409
- and THOMAS, J. E. Protein constituents of pancreatic juice, 1945, 145: 140
- *See* MUNRO, F. L.
- MUNRO, S. S. and KOSIN, I. L. Potency of certain synthetic estrogens, 1946, 147: 582
- MUNTWYLER, E.
- *See* DANIELSON, W. H.
- *See* SAMUELSEN, G. S.
- MURAYAMA, M. M.: *see* GREENBERG, D. M.
- MURDOCK, H. R., JR. and NASSET, E. S. Intestinal juice and hypercalcemia, 1949, 158: 129
- MURLIN, J. R.
- *See* DRIVER, R. L.
- *See* SEALOCK, R. R.
- *See* YOUNG, L. E.
- MURPHY, ANNA: *see* BEECHER, H. K.
- MURPHY, J. P.: *see* GELLHORN, E.
- MURPHY, Q. Accelerator nerves and basal heart rate of dog, 1942, 137: 727
- MURPHY, R. C. and SEEGER, W. H. Prothrombin and Ac-globulin, 1948, 154: 134
- , WARE, A. G. and SEEGER, W. H. Ac-globulin activity, 1947, 151: 338
- *See* GUEST, M. M.
- MURPHY, ROSEMARY. Kidney weight after dinitrophenol and vitamin B₁, 1938, 121: 107
- , LOWTHER, STEPHANIE and PAGNIELLO, LUCIA. Thyrotropic hormone and organ hypertrophy, 1938, 124: 110
- MURRAY, T. J.: *see* COLE, W. H.
- MUSCARINE
failure to potentiate acetylcholine effect, 1940, 130: 349
- MUSCLE
abdominal, in vitro measurement of work by, 1950, 162: 12
- acetylcholine and excitability of, 1938, 124: 372
- acetylcholine, eserine, 1939, 127: 470
- activity of and circulation, 1948, 153: 183
- coronary blood flow, 1941, 132: 321
- removal of adrenal medulla, 1940, 130: 151
- adrenalectomy, fasting, 1940, 131: 465
- adrenaline and fatigue of, 1939, 125: 196
- atrophy caused by denervation and inanition, 1943, 140: 115
- factors affecting, 1949, 159: 6
- various conditions, 1939, 128: 98
- biochemistry of, 1941, 132: 337
- changes in during diuresis and dehydration, 1944, 142: 447
- chemistry of muscular contraction, 1938, 122: 215
- circulation in and d-tubocurarine, 1951, 164: 734
- conduction over a quiescent area, 1938, 122: 27
- contraction, ATP, 1951, 165: 10
- CO₂, 1945, 145: 2
- DFP, 1947, 151: 107
- lactic, phosphoric, and hydrochloric acids, 1945, 145: 7
- pH of ischemic, 1939, 125: 737
- potentials during reading, 1942, 137: 1
- sodium bicarbonate, 1945, 145: 7
- degeneration, creatine-creatinine indices, 1949, 159: 461
- denitrogenation in exercise, 1946, 146: 235
- depressant action of strychnine on, 1939, 126: 280
- efficiency, taking of food, 1938, 121: 123
- electrical stimulation, 1947, 149: 7

- excitability after somatic death, 1947, 148: 300
 extracellular fluid of, 1938, 124: 546
 extracted fibers, relaxation in, 1951, 167: 276
 fate of potassium liberated in activity, 1939, 127: 356
 fatigued, recovery after intravenous potassium, 1941, 131: 615
 growth, atrophy and strength of, 1940, 128: 523
 insulin and acetylcholine response, 1944, 141: 111
 isotonic glucose, 1948, 154: 455
 magnesium, 1939, 127: 486
 measurement of vasomotor tone in, 1942, 137: 187
 neuromuscular transmission to, 1943, 140: 269
 pacemaker activity prior to impulse discharge, 1942, 136: 545
 pain, cortically induced movements, 1944, 142: 231
 due to faradization, 1944, 142: 231
 muscle tone and reflexes in decerebrate cat, 1945, 144: 262
 paralysis, due to lead poisoning in frogs, 1939, 126: 261
 paretic, spontaneous re-innervation of, 1947, 150: 670
 perfused, nicotinamide and work output of, 1946, 146: 53
 pyridoxine and work output of, 1946, 146: 400
 work output of, 1944, 142: 274
 work output of, vitamin B, 1944, 142: 269
 perfusion apparatus for, 1951, 166: 123
 postural contraction and intramuscular pressure, 1939, 126: 247
 potential distribution in, 1938, 121: 250
 preparation of adenosinetriphosphatase from, 1948, 152: 86
 quick stretch and twitch response, 1951, 164: 238
 radioactive phosphorus as tracer in contraction of, 1940, 129: 227
 recovery after nerve section and suture, 1949, 158: 470
 recruitment of activity, 1938, 122: 48
 reflexes, after spinal cord asphyxiation, 1944, 142: 428
 central effect of sodium sulfide on, 1938, 123: 687
 muscle pain and, in decerebrate cat, 1945, 144: 262
 refractory period and summation in, 1939, 128: 203
 regenerating, physiological characteristics of, 1950, 161: 142
 regeneration in rat, 1942, 137: 528
 response, strength of test shock, 1940, 130: 440
 resting, as depot for potassium, 1939, 127: 359
 segmental innervation of antagonistic, 1943, 138: 772
 soreness, from exercise, 1938, 122: 569
 speed of response of various muscles, 1942, 136: 625
 stimulated, biochemistry of, 1941, 132: 341
 loss of potassium from, 1938, 124: 213
 potassium content after adrenalectomy, 1945, 143: 558
 strength, glycine, 1941, 134: 470
 growth, atrophy, 1940, 128: 523
 survival time of mammalian, 1949, 156: 328
 tension, factors affecting, 1947, 149: 7
 tone, bleeding volume after shock, 1946, 146: 366
 high oxygen tension, 1945, 145: 215
 high oxygen tension and cyanide, 1944, 142: 379
 in anesthetized dog, 1945, 143: 120
 in shock under barbitol anesthesia, 1945, 143: 120
 muscle pain and, in decerebrate rigidity, 1945, 144: 262
 toxic substances from, 1944, 141: 262
 transplantation, and reflex studies, 1941, 132: 607
 trauma, blood volume, 1946, 146: 746
 hematocrit, 1946, 146: 746
 voluntary, mechanics of in man, 1947, 151: 612
 weight, normal body weight, 1944, 142: 223
 of atrophied, 1943, 140: 253
 work, gelatin, 1941, 134: 301
 work in running, 1940, 129: 672
- MUSCLE CONSTITUENTS**
 adrenergic substances in, 1947, 148: 472
 cation distribution in, 1941, 134: 225
 chemical studies during atrophy, 1950, 161: 406
 chloride of, 1938, 122: 228; 1940, 129: 600
 cholinesterase in, 1947, 148: 677; 1948, 154: 497
 contractile proteins in, 1950, 160: 46
 during and after embryonic development, 1951, 165: 701
 creatine in, 1938, 124: 533
 denervation atrophy of, 1948, 153: 109
 distribution of lactic acid between, and blood, 1938, 122: 359
 electrical stimulation and protein of, 1946, 145: 584
 electrolyte distribution in, 1950, 160: 298
 acid-base balance, 1951, 167: 665
 after tourniquet, 1951, 166: 424
 cortin, 1938, 124: 322
 during stimulation, 1938, 121: 595
 following ischemia, 1951, 167: 289
 glycogen following ischemia, 1951, 167: 305
 in K-depleted rats, 1939, 127: 385
 in stimulated, 1940, 128: 443
 low atmospheric pressure, 1944, 142: 63
 serum potassium, 1940, 130: 747
 tetanic stimulation, 1940, 129: 264
 enterocrinin in, 1938, 121: 483
 estradiol distribution after injection, 1951, 165: 672
 fat in, sex hormones, 1938, 122: 73
 free and bound potassium in, 1948, 155: 141
 functional changes after partial denervation, 1945, 145: 48
 hemorrhage and tissue metabolites in, 1946, 147: 446
 heparin of, 1939, 125: 104
 histaminase of, 1946, 146: 58
 ions and water of, 1950, 160: 98
 isolated, sodium extrusion from, 1951, 167: 284
 lithium in, 1950, 163: 633
 phosphocreatine in, after gelatin ingestion, 1943, 138: 255
 phosphorus compounds in, 1951, 165: 713
 traumatic shock, 1944, 142: 290
 phosphorus fractions of during stimulation, 1939, 126: 391
 phosphorus turnover during stimulation, 1944, 142: 623

MUSCLE CONSTITUENTS

- potassium, chloride equilibrium in, 1945, 143: 666
- exercise, 1941, 132: 801
- in normal and adrenalectomized rats, 1951, 164: 23
- in stress, 1948, 152: 423
- exchange between muscle and blood during stimulation, 1940, 128: 648
- loss after adrenalectomy, 1947, 148: 266
- protein in atrophy of, 1946, 145: 573
- radioactive iodine in, 1941, 132: 348
- radioactive phosphorus in, 1941, 132: 29
- radioactive potassium in, 1941, 132: 482
- riboflavin and B₆ potency of, 1945, 144: 76
- shock and constituents, 1947, 149: 373
- sodium and amino N in hemorrhagic shock, 1946, 147: 175
- sodium and potassium of, 1950, 162: 186
- thiamin of, 1938, 122: 487
- thiourea of, 1945, 143: 719
- vitamins A and D and Ca and P of, 1947, 149: 325
- water of, 1938, 121: 381
 - diet, exercise, 1940, 128: 539
 - exercise, 1938, 122: 574
- water exchange between blood and muscle during stimulation, 1940, 128: 644
- water and electrolyte distribution in, 1949, 159: 61
 - after thiopental, 1951, 167: 298
- water and fat of during dehydration, 1946, 147: 49
- water and salt during dehydration, 1946, 147: 400
- water, fat, and electrolyte of, 1950, 161: 279
- zinc of, 1938, 124: 753

MUSCLE METABOLISM

- absence of anerobic recovery in, 1939, 125: 763
- acetate metabolism in, 1951, 166: 121
- acetyl hydrolysis in frog, 1940, 130: 281
- acetylcholine synthesis, 1947, 148: 418
- alloxan and glycolysis in, 1947, 150: 614
- anaerobic contraction in presence of iodoacetic acid, 1939, 126: 391
- anoxia, 1950, 162: 88
- CO and respiration, 1940, 129: 195
- contribution to blood level of pyruvate, lactate, and glucose, 1947, 148: 324
- energy requirements of during work, 1940, 129: 682
- energy transformation in during shock, 1946, 146: 275
- exchange, of glucose and lactic acid, 1939, 127: 686
 - of radioactive potassium in, 1941, 132: 612
 - of radioactive and tissue potassium, 1941, 135: 152
- formation of CO₂ from CO in, 1950, 161: 43
- homogenates, ion binding in, 1950, 163: 236
- insulin and phosphorus metabolism in, 1944, 140: 600; 1945, 143: 159
- iodoacetate, latency changes, 1950, 163: 247
- iodoacetate and iodoacetamide inhibition of glycolysis, 1938, 122: 379
 - respiratory quotient, 1938, 122: 390
- methylene blue, indigosulfonate and metabolism, 1938, 122: 404
- of hexosemonophosphate, 1944, 142: 145
- of progesterone in, 1944, 142: 327

- oxidative contraction, and phosphate transfer, 1943, 140: 316
- oxygen consumption of, 1939, 126: 196; 1944, 142: 398; 1945, 144: 88
 - adrenalectomy, 1940, 130: 231
 - in vitamin E deficiency, 1941, 131: 595; 1943, 138: 328
- qualitative differences in resting and activity, 1941, 135: 238
- sodium chloride, 1943, 139: 85
- d-tubocurarine, 1947, 148: 510
- oxygen debt in, 1939, 127: 282
- phosphorus metabolism in, 1942, 137: 753; 1944, 142: 621; 1951, 165: 255
- potassium deficiency, 1951, 167: 319
- potassium liberation from, and blood flow, 1939, 128: 141
- utilization of glucose and lactate after hemorrhagic shock, 1945, 144: 233
- work in running, 1940, 129: 672
 - recovery, 1941, 132: 336

MUSCLE, ACTION POTENTIAL

- activity of smooth, 1946, 146: 496
- hypophysectomy, ACTH, 1950, 161: 537
- in fixed stage of neuromuscular transmission, 1939, 126: 55
- in single volitional twitch, 1942, 136: 743
- 2-methyl naphthoquinone, 1949, 158: 465
- of frog skeletal, 1942, 135: 679
- of partially denervated, 1945, 144: 486
- of potentiated twitch, 1940, 130: 434
- of visceral smooth, 1938, 124: 502; 1942, 136: 555
- temperature, 1949, 157: 429
- tetany, 1948, 154: 67
 - treated with C₁₀, 1950, 162: 480

MUSCLE, DENERVATED

- atrophy in, 1943, 140: 115; 1943, 140: 247; 1948, 153: 109
 - electrical stimulation, 1939, 127: 605
 - fibrillation, 1942, 135: 747
 - rate of, 1939, 128: 97
 - stimulation, 1944, 142: 222
- atrophy of bone, 1945, 143: 677
- atropine, 1943, 138: 251
- biochemistry of, 1941, 132: 336
- drugs, 1949, 158: 142
- electrical stimulation, 1945, 144: 278; 1946, 145: 450
 - atrophy of, 1945, 144: 280
 - glycogen metabolism of, 1943, 138: 360
 - and protein of, 1946, 145: 584
 - tension, 1946, 145: 450
 - weight, 1946, 145: 450
- exchange of radioactive potassium in, 1941, 132: 612
- excitability of effectors, 1949, 158: 141
- fiber size, 1946, 145: 593
- fibers, re-innervation of, 1945, 144: 477
- glycogen metabolism of muscle, 1943, 138: 357
- hexokinase and phosphorylase activities in, 1951, 167: 656
- magnesium, 1939, 127: 486
- myotonia, 1940, 131: 216

- partial, muscle and nerve changes after, 1945, 145: 48
 recovery following, 1946, 145: 587
 strength after, 1946, 145: 596
 penetration of potassium in, 1942, 137: 392
 protein of, 1946, 145: 573
 radioactive phosphorus, 1941, 132: 29
 stimulation of, 1944, 142: 218
 frequency of current, 1944, 142: 222
 succinic dehydrogenase activity of, 1951, 164: 742
 various muscle constituents, 1950, 161: 409
 weight loss following, 1946, 145: 591
- MUSCLE, SKELETAL**
 acetylcholine and potassium sensitivity of, 1946, 146: 567
 action current in, 1943, 138: 412
 action potentials of, 1942, 135: 679
 adrenergic substances in, 1947, 148: 472
 anoxic anoxia and myoglobin of, 1949, 156: 44
 anticholinesterases, 1948, 153: 355
 atrophy and normal, birefringence and contractile power of, 1940, 131: 156
 cH and humoral stimulation of, 1945, 145: 1
 chemical studies during atrophy, 1950, 161: 406
 cholinesterase in, 1947, 148: 677
 contractile proteins of, during and after embryonic development, 1951, 165: 701
 cooled, failure of potentiation in, 1951, 166: 480
 deep-freezing, 1949, 156: 333
 denervated, atrophy in, 1943, 140: 247
 atrophy in, fibrillation, 1942, 135: 747
 atropine, 1943, 138: 251
 drugs, 1949, 158: 142
 stimulation of, 1944, 142: 216
 electrical excitability of, 1940, 129: 22
 electrical stimulation of, 1943, 138: 583
 atrophy of, 1948, 154: 451
 electrogram of, 1941, 133: 724
 energy transformation in, during shock, 1946, 146: 270
 enterocrinin in, 1938, 121: 483
 fibrillation, denervated, 1942, 135: 747
 denervated, drugs, 1943, 140: 248
 voltage, suture and resection of sciatic nerve, 1947, 150: 560
 formation of CO₂ from CO in, 1950, 161: 43
 gelatine and strength and fatigability, 1940, 131: 426
 hemorrhage and tissue metabolites in, 1946, 147: 446
 high oxygen, 1938, 124: 576
 histaminase of, 1946, 146: 58
 inhibition by thiamin of acetylcholine response, 1946, 147: 233
 K poisoning and electrolyte distribution in, 1943, 139: 667
 metabolism and potassium deficiency, 1951, 167: 319
 oxygen consumption of, 1945, 144: 88
 adrenalectomy, 1940, 130: 231
 in vitamin E deficiency, 1941, 131: 595
 oxygen debt in, 1939, 127: 282
 pH changes after contraction, 1938, 121: 311
 phosphorus metabolism in, 1942, 137: 753
 potentials in after injury, 1942, 137: 443
 quinine, 1940, 131: 228
 response to acetylcholine, 1946, 147: 384
 sodium and potassium of, 1950, 162: 186
 sodium turnover in, 1951, 167: 335
 temperature, blood flow and activity in, 1947, 150: 705
 tone of, hemorrhage, 1942, 137: 252
 d-tubocurarine and contractile response, 1951, 165: 716
 uptake of phosphorus, 1950, 163: 575
 water and salt during dehydration, 1946, 147: 400
- MUSCLE, SMOOTH**
 acetylcholine formation by, 1939, 127: 382
 action potentials in, 1938, 124: 502; 1942, 136: 555
 activity of, 1946, 146: 496
 anoxia, contractility and metabolism, 1950, 162: 88
 drugs, 1951, 164: 565
 anoxic effect of high oxygen pressure on, 1940, 130: 445
 bradykinin, 1949, 156: 261
 characteristics of excitability of, 1938, 122: 616
 cooling and contraction of, 1950, 163: 14
 denervated, reaction to adrenaline and sympathin, 1940, 130: 475
 electric responses of, 1942, 137: 263
 electric stimulation and conduction in, 1938, 122: 614
 high oxygen pressure, cyanide, 1944, 142: 379
 motor-units in blood vessels, 1942, 135: 533
 nerve-free, of chick amnion, 1940, 131: 524
 nerve supply and adrenaline-sensitivity, 1942, 137: 87
 pacemaker activity in, 1942, 136: 543
 pH and activity, 1951, 167: 386
 stimulants from blood, 1944, 142: 12
 stretch, 1947, 149: 300
 sympathetic response of, 1940, 130: 627
- MUSCULAR DYSTROPHY**
 avitaminosis-E, thiamin, 1941, 132: 211
 progressive, utilization of intravenously injected iron in, 1951, 165: 352
- MUSCULARIS MUCOSAE**
 electrical stimulation of, 1947, 148: 669
 nervous mechanisms of, 1945, 143: 325
 various substances, 1947, 148: 669
- MUSCULARIS VEINS**
 nitrogen content in denitrogenated cats, 1946, 146: 235
- MUSHETT, C. W.:** *see* UNNA, K.
- MUSKRAT**
 blood flow through brain during arrest of breathing, 1938, 122: 207
 insensitivity to CO₂, 1938, 124: 729
 vitamin A reserves of, 1938, 123: 695
- MUSTARD OIL**
 gastric secretion induced by, 1947, 149: 724
- MUSTELUS CALIFORNICUS:** *see* SHARK
- MUUS, J., HARDENBERG, ESTHER and DRINKER, C. K.**
 Tissue metabolism in lymph collected after burns, 1944, 142: 284
- MYANESIN**
 muscular relaxation, 1949, 156: 419
 respiration in midpontine animal, 1950, 162: 75

MYELOID CELLS

metabolism of, 1940, 131: 183

MYENTERIC REFLEX

studies on, 1949, 157: 329

MYERS, G. S. and HILL, W. T. Altered gall-bladder function of pregnant guinea pig, 1942, 135: 347

— See HILL, W. T.

MYERS, H. L.: see BURCH, G. E.

MYERS, L.: see JANES, R. G.

MYERS, V. C.: see DANIELSON, W. H.

MYLON, E. and HELLER, J. H. Renal glutaminase, 1948, 154: 542

— and WINTERITZ, M. C. Factors concerned with induction of tourniquet shock, 1945, 144: 494

— and WINTERITZ, M. C. Toxic intermediaries in tourniquet shock, 1946, 146: 254

—, CASHMAN, C. W., JR. and WINTERITZ, M. C. Adrenaline and carotid sinus in hyperglycemic shock, 1944, 142: 638

—, CASHMAN, C. W., JR. and WINTERITZ, M. C. Mechanisms involved in shock and its therapy, 1944, 142: 299

—, LUND, M. and HELLER, J. H. Renin and hypertensin, 1948, 152: 397

—, SMITH, E. R. and GOLDSTEIN, P. Kidney and N metabolism, 1948, 153: 55

—, WINTERITZ, M. C., and DE SÜTÖ-NAGY, G. J. Serum phosphate and calcium in traumatic shock, 1943, 139: 299

—, WINTERITZ, M. C. and DE SÜTÖ-NAGY, G. J. Studies on therapy in traumatic shock, 1943, 139: 313

—, WINTERITZ, M. C., KATZENSTEIN, R. and DE SÜTÖ-NAGY, G. J. Mechanisms involved in shock, 1942, 137: 280

— See HELLER, J. H.

— See KATZENSTEIN, R.

MYOGLOBIN

anoxic anoxia, 1949, 156: 44

high altitude, 1949, 159: 77

MYOGRAM

of papillary muscle, 1949, 156: 30

of striated muscle, 1941, 133: 724

MYOPATHY

utilization of intravenously injected iron in, 1951, 165: 352

MYOSIN

B threads, contraction of and ATP, 1951, 165: 10

changes in skeletal muscle with development, 1951, 165: 701

muscular fatigue and solubility, 1947, 149: 177

of muscle, 1946, 145: 575; 1946, 145: 584

MYOTATIC REFLEX: see STRETCH REFLEX

MYOTONIA

experimental, due to 2,4-D, 1948, 155: 69

of denervated muscle, 1940, 131: 216

MYXEDEMA: see HYPOTHYROIDISM

NACHLAS, M. M.: see SELIGMAN, A. M.

NARUM, L. H. and HOFF, H. E. Epicardial and endocardial extrasystoles, 1946, 145: 615

See page iii for guide to use of index

— and HOFF, H. E. Precordial electrocardiogram, 1948, 155: 215

—, CHERNOFF, H. M. and KAUFMAN, W. Analysis of 'unipolar' extremity, 1948, 154: 369

—, CHERNOFF, H. M. and KAUFMAN, W. Spread of excitation in dog heart, 1949, 157: 248

—, CHERNOFF, H. M. and KAUFMAN, W. 'Unipolar' extremity lead VF, 1948, 153: 547

—, CHERNOFF, H. M. and KAUFMAN, W. 'Unipolar' extremity lead VL, 1948, 153: 540

—, CHERNOFF, H. M. and KAUFMAN, W. 'Unipolar' extremity lead VR, 1948, 153: 529

—, HAMILTON, W. F. and HOFF, H. E. Injury current in electrocardiogram, 1943, 139: 202

—, HOFF, H. E. and KAUFMAN, W. Formation of R complex of electrocardiogram, 1941, 134: 384

—, HOFF, H. E. and KAUFMAN, W. Nature of S complex of electrocardiogram, 1942, 136: 726

—, HOFF, H. E. and KAUFMAN, W. Septal extrasystoles in electrocardiogram, 1941, 134: 398

—, HOFF, H. E. and KISCH, B. Displacement of RS-T segment, 1941, 131: 693

— See HOFF, H. E.

— See LEVINE, H.

NAKAMURA, K., SAUNDERS, P. R., WEBB, J. L., LAWSON, H. C. and THIENES, C. H. Substrates on perfused rat heart, 1949, 158: 269

NAKASHIMA, M.: see FRIEDMAN, S. M.

NAPHTHALENE

muscle sensitivity to acetylcholine and potassium, 1946, 145: 610

NAPHTHOLS

α , acetylcholine synthesis, excitation, 1946, 147: 384

muscle sensitivity to acetylcholine, potassium, 1946, 145: 610

β , acetylcholine synthesis, excitation, 1946, 147: 384

muscle sensitivity to acetylcholine, potassium, 1946, 145: 610

1,4-, quinone, depressor action in hypertension, 1945, 143: 179

1,4-NAPHTHOQUINONE: see NAPHTHOLS

ALPHA-NAPHTHYL THIOUREA

acute effects, 1949, 156: 35

1-NAPHTHYLMETHYLETHYL-2-BROMOETHYLAMINE HBr

inhibition of hyperglycemia with, 1951, 165: 68

1-NAPHTHYLMETHYLETHYL-2-HYDROXYETHYLAMINE

HCl

inhibition of hyperglycemia with, 1951, 165: 68

NARCOSIS

CO₂-O₂ tension of alveolar air in, 1946, 146: 652

dilantin, 1951, 166: 718

glucose uptake by perfused brain, 1947, 149: 534

nerve fiber, 1939, 127: 211

nitrogen compression, decompression and alveolar gas, 1950, 161: 417

in frogs and mice, 1951, 166: 699

oxygen consumption of brain, 1947, 149: 529

resistance to G forces, 1949, 156: 137

strength-duration stimulation of nerve fiber, 1939, 125: 375

NASAL PHARYNX

apparatus for perfusion of, 1939, 126: 22
irrigation, temperature of, cervical lymph flow,
1940, 128: 350

lymphatic absorption from, 1939, 126: 20

NASAL SEPTUM: *see* NOSE

NASH, T. P.: *see* AMBERSON, W. R.

NASH, T. P., JR.: *see* WILLIAMS, E. F., JR.

NASON, GLADYS I.: *see* FORBES, H. S.

NASSET, E. S. Enterocrinin excitation of small in-
testine, 1938, 121: 481

— *See* FINK, K.

— *See* FINK, R. M.

— *See* HEGGENESS, F. W.

— *See* KNELLER, A. W.

— *See* MURDOCK, H. R., JR.

— *See* SCHIFFRIN, M. J.

— *See* WATMAN, R. N.

— *See* WEISSBERGER, LOUISE H.

NASTUK, W. L. Tissue changes in gravity shock, 1947,
149: 369

— and BEATTY, CLARISSA H. Standardization of
hemorrhagic shock, 1949, 156: 202

— and BEATTY, CLARISSA H. Therapy in hemor-
rhagic shock, 1949, 156: 210

NAUSEA

activity of descending duodenum in, 1942, 136: 563
with restriction of B vitamins, 1945, 144: 24

NAVIS, G. J.: *see* RING, G. C.

NECHELES, H. and NEUWELT, F. Antagonism of
acetylcholine to pituitary secretion, 1938, 124:
142

— and OLSON, W. H. Traumatic shock and gastro-
intestinal activity, 1942, 136: 32

—, DOMMERS, P., WEINER, M., OLSON, W. H. and
RYCHEL, W. Injection of pyrogens and gastric
motility, 1942, 137: 22

—, WALKER, L. and OLSON, W. H. Hemorrhage and
gastro-intestinal motility, 1946, 146: 449

— *See* ARIMOTO, F.

— *See* BLOCH, E.

— *See* GUTMANN, H.

— *See* OLSON, W. H.

— *See* WESTON, R. E.

NECROSIN

blood sugar level, 1946, 147: 379

NECTURUS

oxygen consumption of retina in, 1943, 139: 13
NEIDLE, ENID A. Ciliary ganglion and pilocarpine,
1950, 160: 467

— Esterine and parasympathetics, 1950, 160: 474

NELSON, BETTE G.: *see* HELLEBRANDT, FRANCES A.

NELSON, DOROTHY: *see* WINDLE, W. F.

NELSON, J. W.

— *See* CARTLAND, G. F.

— *See* Hiestand, W. A.

— *See* KUIZENG, M. H.

NELSON, N., EICHNA, L. W., HORVATH, S. M., SHELLEY
W. B. and HATCH, T. F. Thermal exchanges of
man, 1947, 151: 626

— *See* EICHNA, L. W.

— *See* MIRSKY, I. A.

NELSON, W. E.: *see* ROBINSON, H. W.

NELSON, W. O.

— *See* JANES, R. G.

— *See* SCHWEIZER, MALVINA

— *See* SEGALOFF, A.

NEMBUTAL: *see* PENTOBARBITAL

NEOIOPAX

renal clearance of, 1938, 123: 720

NEOMYCIN

survival of eviscerated rat, 1951, 166: 351

NEOPLASTIC DISEASE

serum from, bone marrow cultures, 1948, 153: 483

NEOPRONTOSIL

renal electrolyte metabolism, 1951, 167: 209

NEOSTIGMINE: *see* PROSTIGMINE

NEOSTRIATUM

role of, 1941, 133: 594

NEOSYNEPHRIN

as cardiac accelerator, 1940, 130: 193

cardiac systole, cycle relations, 1948, 154: 10

intestinal motility, 1939, 126: 242

respiratory tract fluid, 1943, 138: 566

survival in hemorrhagic shock, 1944, 142: 578

vagal control of cardiac activity, 1943, 139: 677

vascular shock, 1943, 138: 225

NEPHRECTOMY

blood pressure response, 1941, 135: 124

blood sugar level of eviscerated rat, 1946, 146: 359

blood uric acid, allantoin, 1947, 150: 678

carbohydrate tolerance, 1948, 153: 393

chloride equilibrium, 1945, 143: 671

hemodynamics after, 1951, 165: 167

hemorrhagic shock, urea synthesis, 1946, 147: 165

insulin and protein metabolism after, 1938, 124: 569

iodide metabolism in, 1951, 167: 576

of ischemic kidney, blood pressure, 1946, 147: 647

ovarian response to gonadotropins, 1943, 138: 241

parathyroid glands, 1943, 139: 406

plasma mannitol and PAH after, 1951, 165: 102

response to TEA, 1949, 158: 407

salt hypertension, 1951, 164: 77

survival time after, and body K, 1942, 136: 577

traumatic shock, 1947, 150: 702

unilateral, renal function after, 1938, 122: 609

urea formation, 1949, 158: 149

NEPHRO-OMENTOPEXY

renal dynamics, 1949, 156: 79

NEPHROSCLEROSIS

anterior pituitary treatment, 1946, 147: 299

NEPHROSIS

body water in, 1950, 162: 315

NERVE

acetylcholine of in Wallerian degeneration, 1939,
128: 50

action potential of, anoxia, 1946, 147: 82

artifacts from single fibers, 1940, 130: 392

axon diameter, 1939, 127: 396

correlation with transmission, 1939, 128: 50

frog, triturus toxin, 1947, 150: 326

growth, 1939, 127: 146

in fixed stage of neuromuscular transmission, 1939,
126: 54

NERVE

- action potential of, method of measuring from single fiber, 1940, 130: 393
- 2-METHYL NAPHTHOQUINONE, 1949, 158: 465
- MFA, 1949, 157: 291
- of mammalian B fibers, 1939, 127: 256
- of postganglionic, 1938, 122: 2
- respiration of, 1950, 162: 461
- spike, magnitude in, 1940, 130: 528
- activity, insulin, 1940, 131: 509
- alternating current, 1939, 125: 251
- carbon dioxide production at high oxygen tension, 1947, 148: 499
- chamber, for stimulating nerve and recording electrodes, 1950, 162: 546
- convection of fluid in endoneural spaces of, 1945, 143: 521
- degeneration, cholinesterase content, 1946, 146: 248
 - following crushing, 1946, 147: 550
 - retrograde, neuron excitability, 1949, 158: 457
- effector, antagonistic drugs, 1949, 156: 280
- denervated, antagonistic drugs, 1949, 156: 280
- electrical stimulation of, interelectrode distance, 1943, 138: 583
- electrotonic changes of excitability, 1941, 132: 57
- electrotonic stimulation of, 1947, 148: 515
- exchange of radioactive and tissue potassium, 1941, 135: 152
- excitability, AC current, 1939, 125: 205
 - carbon dioxide tension, 1938, 122: 275
 - direct current, 1941, 132: 57
 - excised and circulated nerve, 1940, 130: 489
- excitation across a block, 1939, 126: 97
- excitation of axons by adjacent axons, 1941, 133: 96
- formation of CO₂ from CO in, 1950, 161: 43
- functional changes due to partial denervation, 1945, 145: 48
- isolated, acetylcholine and adrenaline from, 1939, 127: 263
- lesions and blood flow, 1949, 156: 185
- mammalian, survival time of, 1949, 156: 328
- metabolic changes of resting potential, 1948, 153: 93
- of the muscularis mucosae, 1945, 143: 325
- pathways, from pons subserving heat regulation, 1946, 147: 500
- peripheral, cholinesterase in, 1947, 148: 677
 - injury and repair, 1943, 140: 107
 - oxygen lack, 1946, 147: 78
 - response of sensorimotor cortex to stimulation of, 1938, 121: 21
 - sensitivity to anoxia, O₂ consumption, temperature, 1946, 147: 89
- phosphorus in, 1951, 164: 5
- plexus, in intestine, segment behavior, 1951, 164: 284
- polarization, 1940, 130: 531
 - peripheral, asphyxiant in, 1947, 148: 174
- regeneration, 1942, 137: 529; 1944, 140: 616
- cholinesterase content, 1946, 146: 248
 - following crushing, 1946, 147: 550
 - physiological characteristics of, 1950, 161: 142
 - preganglionic, after sympathectomy, 1940, 128: 465

- repayment of oxygen debt in, 1939, 127: 285
- respiration of MFA, 1949, 157: 291
- response, temperature, 1941, 134: 694
- section, secretion of pancreas after, 1944, 141: 730
 - suture and, muscle recovery, 1949, 158: 470
- stimulation of, atropine, 1943, 139: 178
 - by direct currents, 1941, 132: 99
- stimulation of axons by nerve impulses, 1941, 132: 119
- survival of excitability after somatic death, 1947, 148: 300
- temperature and nerve response, 1941, 134: 694
- trunks, interaction of axons in, 1944, 140: 656
- various drugs, 1950, 163: 197
- veratrine, 1941, 133: 736

NERVE CONDUCTION

- determination of rate, 1948, 152: 439
- electro-saltatory, 1939, 127: 211
- in Purkinje tissue, 1951, 165: 173
- nerve fibers of slowest, 1938, 123: 299; 1938, 123: 307
- peripheral, asphyxia, narcosis, 1947, 148: 174
- salt-free isotonic solutions, 1938, 124: 341
- velocity of, 1940, 130: 529
 - degenerating and regenerating nerves, 1946, 147: 550
 - diameter of nerve fibers, 1939, 127: 131; 1939, 127: 393
 - recovery of excitability, 1938, 123: 336
 - Wallerian degeneration, 1939, 128: 24
 - without oxygen consumption, 1950, 162: 458

NERVE FIBERS

- action potential, schematic composition of C, 1938, 123: 316
- adrenergic, adrenaline in, 1939, 125: 765
- afferent, types in phrenic nerve, 1947, 151: 547
- alpha, nerve sheath and conduction, 1951, 166: 233
- antihistaminics, 1951, 164: 509
- articular, central connections of, 1949, 159: 195
- carbamate conduction block in, 1948, 155: 82
- cardio-accelerator, of vagus nerve, 1939, 128: 247; 1945, 144: 513
- conduction velocity and diameter of, 1939, 127: 131
- local response in, 1951, 167: 134
- medullated, interaction of, 1940, 131: 483
 - isotonic salt-free solutions and conduction in, 1938, 124: 341
- of slowest conduction, 1938, 123: 299; 1938, 123: 307
- peristalsis in, 1945, 143: 537
- postganglionic, impulses through, 1938, 122: 1
- preganglionic, to limbs, spinal origin of, 1942, 135: 324
- properties of growing, 1939, 127: 140
 - of mammalian B, 1939, 127: 252
- recruitment of, 1938, 121: 193; 1944, 141: 196
- repetitiousness, of motor and sensory fibers, 1938, 121: 431
- sensory, cholinesterase of, 1945, 144: 82
- single, action potential artifact from, 1940, 130: 392
 - excitation process in, 1939, 125: 381
 - medullated, spike height and polarizing current, 1949, 159: 217

- preparation of, 1939, 125: 369
tripolar stimulation of, 1939, 125: 381
strength-duration stimulation of, 1939, 125: 367
strychnine, 1939, 125: 176
thoracic-lumbar autonomic, efferent pathway for
carotid body vasomotor reflexes, 1945, 143: 220
- NERVE IMPULSE**
electro-saltatory transmission of, 1939, 127: 211
excitation of axons by adjacent axons, 1941, 133: 96
frequency, vasomotor reflexes, 1939, 125: 121
intensity, vasomotor reflexes, 1939, 125: 124
- NERVE SHEATH**
as barrier to action of drugs, 1951, 166: 229
- NERVE TRANSMISSION:** *see* TRANSMISSION (SYNAPTIC)
- NERVES, ACCELERATOR:** *see* CARDIAC NERVES
- NERVES, HYPOGASTRIC:** *see* HYPOGASTRIC NERVES
- NERVES, HYPOGLOSSAL:** *see* HYPOGLOSSAL NERVES
- NESIN, SARAH:** *see* HIMWICH, H. E.
- NET SWEATING EFFICIENCY**
for dressed man, 1947, 149: 218
- NETRAVISESH, V. and WHITE, H. L.** Hemorrhage
and transfusion on renal function, 1950, 161: 442
- NETSKY, M. G. and LEITER, S. S.** Capillary perme-
ability to horse proteins in burn-shock, 1943,
140: 1
- NEUFELD, A. H. and ROSS, W. D.** Ketones in carbo-
hydrate metabolism of exercise, 1943, 138: 747
- NEUFELD, W.:** *see* KNEHR, C. A.
- NEUMANN, C.** Variations in blood pressure and finger
tip volume, 1943, 138: 618
- , COHN, A. E. and BURCH, G. E. Pulse and alpha
waves of tips of fingers and toes, 1942, 136: 448
- , COHN, A. E. and BURCH, G. E. Quantitative water
loss from small areas of skin, 1941, 132: 748
- , COHN, A. E. and BURCH, G. E. Volume variations
of finger tips, etc., in hypertension, 1942, 136:
451
- *See* BURCH, G. E.
- *See* PROSKAUER, G. G.
- NEURAL MOTOR UNIT:** *see* MOTOR NERVE
- NEURAL OSCILLATORY EFFECT**
observations in dark adaptation, 1945, 143: 8
- NEURINE**
stimulation of gastric secretion by, 1943, 139: 364
- NEUROHYPOPHYSIS:** *see* POSTERIOR PITUITARY GLAND
- NEUROMUSCULAR FUNCTION**
as affected by pain, 1944, 142: 231
Ca and K in cerebrospinal fluid, 1938, 121: 719
cholinesterase content of C.N.S., 1945, 143: 687
decanes, 1950, 162: 475
electrical stimulation, 1945, 144: 282
endocrine disorders, 1947, 151: 91
in various animals, 1943, 139: 745
lymphoid necrosis, 1950, 163: 201
of single motor unit activity, 1941, 133: 658
pituitary, 1949, 156: 274
polyphasic action potential, motor unit complex,
1943, 139: 652
spasticity, uptake of phosphorus by skeletal muscle,
1950, 163: 579
spinal reflexes, 1944, 142: 431
vitamin E in, 1943, 139: 183
- NEUROMUSCULAR JUNCTION**
action of potassium chloride at, 1948, 152: 53
- NEUROMUSCULAR TRANSMISSION**
adrenocortical hormones, 1942, 137: 331
division into stages, 1940, 130: 205
fatigue, during curarization, 1939, 126: 58
in regenerating muscle and nerve, 1950, 161: 146
five stages of, 1939, 128: 31
fixed stage of, 1939, 126: 39
in single nerve and muscle fiber, 1943, 140: 269
in striated muscle, 1940, 129: 28
in various muscles, 1942, 136: 627
in Wallerian degeneration, 1939, 128: 47
late stages, 1940, 130: 219
magnesium, 1940, 130: 295
- NEURONS**
activation, acid-humoral mechanism of, 1942, 136:
605
adrenergic, presence of adrenaline in, 1939, 125: 768
afferent, to acoustic cortex, 1945, 144: 389
anoxia, 1946, 147: 78
central, physiological delimitation of, 1939, 127: 620
excitability, retrograde degeneration, 1949, 158: 457
fatigued, death and temperature, 1938, 122: 551
respiration of, 1942, 136: 49
spinal, adrenaline, 1947, 150: 37
- NEUROTOMY:** *see* MUSCLE, DENERVATED
- NEUTROPHILES**
adrenals, spleen, 1950, 160: 78
poly-lobation of polymorphonuclear, 1938, 124: 398
seasonal variations in count, 1938, 122: 520
- NEUWELT, F.:** *see* NECHELES, H.
- NEWBORN**
mechanism of survival during anoxia, 1942, 135: 388
physiological icterus of, 1948, 152: 205
tolerance to anoxia, 1941, 134: 282
- NEWBURGER, R. A. and BROWN, F. R.** Liver glycogen
maintenance on various diets, 1942, 136: 746
- NEWELL, G. W., GERSHOFF, S. N., FUNG, F. H. and
ELVEHJEM, C. A.** Effects of agenized amino
acids, 1948, 152: 637
- NEWMAN, E. A., and GROSSMAN, M. I.** Nucleic acid
and liver regeneration, 1951, 164: 251
- , GROSSMAN, M. I. and IVY, A. C. Liver regenera-
tion, 1949, 157: 221
- NEWMAN, E. V.** Lactic acid distribution between blood
and muscle, 1938, 122: 359
- NEWMAN, M. M., BAY, E. B. and ADAMS, W. E.**
Mitral insufficiency, 1951, 165: 497
- NEWT**
nerve activity in limb regeneration, 1951, 165: 257
- NEWTON, M.:** *see* SPEALMAN, C. R.
- NEZAMIS, J. E.:** *see* INGLE, D. J.
- NIACIN**
appetite in rats, 1939, 127: 206
clotting time, 1945, 144: 453
cold and metabolism of, 1946, 146: 550
in body fluids during dietary restrictions, 1946, 147:
47
in liver, thiamin intake, 1945, 144: 646
in urine, blood, and feces, on various diets, 1947,
148: 624

NIACIN

- intake at army training centers, 1945, 144: 590
- intestinal synthesis of, 1947, 148: 94
- ketogenic action of, 1949, 159: 547
- massive doses in reduced caloric intake, 1947, 150: 553
- supplementation with, 1947, 148: 636
- temperature and requirement for, 1947, 149: 376
- thrombin and enzymatic inactivation of, 1950, 162: 665
- work output of perfused muscle, 1944, 142: 269

NIAGARA SKY BLUE

- binding by plasma proteins, 1943, 138: 714
- disappearance from blood stream, 1943, 138: 698

NICHOL, J. T. and BURTON, A. C. Oscillatory flow with adrenaline, 1950, 162: 280

- , GIRLING, F., JERRARD, W., CLAXTON, E. B. and BURTON, A. C. Critical closure of blood vessels, 1951, 164: 330

NICHOLAS, C. H.: *see* PERKINS, J. F., JR.

NICHOLS, H. J. and HERRIN, R. C. Renal tubular reabsorption of urea, thiourea, etc., 1941, 135: 113

- *See* HERRIN, R. C.

NICHOLS, CAROLINE J.: *see* BLOOM, W. L.

NICHOLS, J. Adrenal gland of wild Norway rat, 1950, 162: 5

- and LITTLE, J. M. Response of adrenal cortex to ACTH, 1951, 167: 341

NICHOLSON, H. C. and SOBIN, S. Respiration and drugs on obex region of brain, 1938, 123: 766

- and TRIMBY, R. H. Buoyancy of body and respiratory modifiers, 1942, 137: 136
- and TRIMBY, R. H. Change of bronchial calibre and respiration, 1940, 128: 276
- TAKAHASHI, W. Y. and HONG, J. Adrenal cortex and neuromuscular transmission, 1942, 137: 331
- *See* SOBIN, S.
- *See* TRIMBY, R. H.

NICKERSON, J. L. Local fluid loss in trauma, 1945, 144: 429

- and CURTIS, H. J. Design of ballistocardiograph, 1944, 142: 1
- , COOPER, F. W., JR., ROBERTSON, R. and WARREN, J. V. Arteriovenous fistulas, 1951, 167: 426
- *See* CONLEY, C. L.

NICKERSON, M. and NOMAGUCHI, G. M. Epinephrine cardioacceleration, 1950, 163: 484

- , BERGHOUT, J. and HAMMERSTROM, R. N. Mechanism of epinephrine toxicity, 1950, 160: 479

NICKERSON, N. D.: *see* GREEN, H. D.

- *See* WIGGERS, C. J.

NICOTINAMIDE

- N-methylnicotinamide excretion, 1950, 160: 317
- work output of perfused muscle, 1944, 142: 269; 1946, 146: 53

NICOTINE

- anoxia and action of, 1951, 164: 567
- antagonist to cardiac action of acetylcholine, 1945, 144: 191
- antidiuretic activity of, 1951, 164: 51
- arterial pressure, 1950, 160: 422

- inhibition of brain cholinesterase, 1950, 160: 193
- intestinal motility, 1951, 165: 378
- muscularis mucosae, 1945, 143: 331
- respiration, 1938, 123: 766
- reversal of acetylcholine pressor effect, 1940, 129: 58
- uterine response to stimulation, 1942, 137: 456
- vagal cardiostimulation, 1949, 158: 33
- vascular reactivity to, 1949, 156: 414

NICOTINIC ACID: *see* NIACIN

NICOTINIC ACID AMIDE: *see* NICOTINAMIDE

NICOTINIC ACTION

- of acetylcholine, 1940, 130: 346

NICITATING MEMBRANE

- acetylcholine, adrenaline, 1938, 121: 149
- adrenotropic receptors in, 1948, 153: 590
- antagonistic drugs, 1949, 156: 280
- denervated, responsiveness of, 1938, 122: 650
- response to sympathin, 1941, 132: 542
- electric responses of, 1942, 137: 270
- labyrinthectomy and sensitization of, 1940, 128: 528
- reflex responses of, 1938, 121: 32
- responses to various drugs after ergotoxine, 1940, 128: 696
- sensitization of, by preganglionic denervation, 1939, 125: 277
- to adrenaline, 1939, 125: 277
- thyroxine and sensitivity, 1942, 135: 453

NIELSEN, E. K. and CORLEY, R. C. Retention of amino acid nitrogen in the rat, 1939, 126: 223

- , GERBER, L. P. and CORLEY, R. C. Retention of amino acid nitrogen in the dog, 1939, 126: 215

NIELSON, M., HERRINGTON, L. P. and WINSLOW, C.-E. A. Posture and peripheral circulation, 1939, 127: 573

NIELSON, P. E. Placental transfer of phospholipid, 1942, 135: 670

- NIESET, R. T., PORTER, BLANCHE, TRAUTMAN, W. V., JR., BELL, R. M., PARSON, W., LYONS, C. and MAYERSON, H. S. Circulating red cell volume, 1948, 155: 226

- *See* MAYERSON, H. S.

NIGHT BLINDNESS

- due to increased cerebrospinal pressure, 1940, 130: 685

- human dietary, 1938, 123: 732

NIKETHAMIDE

- bleeding volume, 1946, 146: 367
- brain metabolism, 1945, 143: 38
- respiration at high altitude, 1949, 156: 55

NILSON, H. W.: *see* INGLE, D. J.

NIMS, L. F.: *see* CLARKE, R. W.

- *See* DUSSEY DE BARENNE, J. G.

- *See* GELFAN, S.

- *See* LANGLEY, L. L.

- *See* MARSHALL, C. S.

- *See* STONE, W. E.

NINHYDRIN

- clotting time, 1945, 144: 453
- crystalline papain and fibrin clot, 1943, 138: 648

NISHIKAWARA, MARGARET: *see* MENDEL, B.

See page iii for guide to use of index

- NITRATE**
chloride excretion, 1950, 162: 668
production of hypochloremia by, 1940, 129: 597
- p-NITROBENZOIC ACID**
adrenaline oxidation by tyrosinase, 1942, 136: 67
- NITROGEN**
absorption through skin, 1941, 131: 627
acidosis and, in muscle, 1951, 167: 669
bile and absorption of, 1948, 153: 144
clearance from blood and saliva, 1942, 137: 715
distribution in heart and skeletal muscle, 1943, 139: 670
elimination, at high barometric pressures, 1941, 131: 633
from body, 1941, 131: 619
endogenous metabolism in hypophysectomized rats, 1938, 122: 373
inhaled, cerebral blood flow, 1943, 138: 426
of blood, during denitrogenization, 1947, 151: 71
of body fluids during dietary restrictions in man, 1946, 147: 47
of brain, concussion, 1949, 156: 129
of cartilage, 1951, 166: 331
of genital tract, 1940, 130: 290
of liver during regeneration, 1949, 157: 138
of muscle and skin, splenectomy, 1950, 160: 298
of plasma, epinephrine, 1938, 121: 327
of serum, growth, 1941, 132: 365
of urine, diethylstilbestrol, 1946, 145: 414
glucose and fructose, 1938, 124: 79
on nitrogen-free diet, 1938, 121: 234; 1938, 123: 234
pituitary hormones, 1942, 137: 544
thyroidectomy, 1946, 145: 413
partition of in submaxillary saliva, 1940, 129: 540
peripheral nerve polarization, 1947, 148: 176
renal electrolyte, metabolism in, 1951, 167: 207
tension, carbon dioxide production, 1947, 148: 495
testosterone and excretion of, 1948, 155: 272
use for deep sea diving, 1939, 126: 409
utilization of from heated casein, 1948, 152: 286
work and recovery of muscle, 1941, 132: 341
- NITROGEN BALANCE**
determination of insulin metabolism, 1939, 126: 156
dietary fat, 1950, 163: 347
growth hormone, insulin, 1951, 166: 354
in hypoproteinemic dogs, 1945, 144: 369
maintenance in adult rats by amino acids, 1939, 127: 589
of dogs, 1949, 159: 415
- NITROGEN EXCRETION**
after hemorrhage, 1948, 153: 284
after ligation of pancreatic ducts, 1938, 122: 43
carbohydrate feeding, 1947, 150: 392
comparison of testosterone propionate and growth hormone, 1950, 160: 66
during hypoproteinemia, 1945, 144: 373
hemorrhagic shock, 1946, 147: 308
in hypophysectomized animals, thyroxine, 1939, 125: 224
nitrogen mustard, 1948, 155: 299
on nitrogen-free diet, 1938, 123: 233
pituitary hormones, 1948, 155: 18; 1948, 155: 24
steroids, 1950, 160: 57
testosterone, 1950, 162: 586
xanthines, 1946, 147: 429
- NITROGEN METABOLISM**
during liver regeneration, 1947, 151: 391
kidney, 1948, 153: 55
- NITROGEN METER**
for measurement of gases in respiration, 1950, 161: 343
- NITROGEN MUSTARD**
convulsant activity of, 1950, 160: 197
inhibitory effect on brain cholinesterase, 1950, 160: 192
water and electrolyte balance, 1948, 155: 295
- NITROGEN NARCOSIS: see NARCOSIS, NITROGEN**
- NITROGEN-FREE DIET**
nitrogen excretion, 1938, 123: 233
protein metabolism, 1938, 121: 231
- NITROGLYCERINE**
ballistocardiograph, 1941, 134: 419
blood flow in bronchial artery, 1947, 148: 661
cardio-acceleration from hypotension produced by, 1945, 144: 520
cerebral blood flow, 1943, 138: 426
flow and pattern in peripheral arteries, 1943, 138: 732
- NITROPHENOLS**
2-, RENAL ELECTROLYTE METABOLISM, 1951, 167: 208
2-, and 4-, PAH ACCUMULATION IN KIDNEY SLICES, 1950, 161: 189
phenol red transport in fish tubules, 1950, 161: 169
respiration of fish kidney, 1950, 161: 171
- 4-NITROSOMORPHOLINE**
convulsant activity of, 1950, 160: 198
- NITROUS OXIDE**
measurement of cerebral blood flow, 1945, 143: 53
of coronary blood flow by, 1948, 152: 356
- NIVEN, J. I.: see MCFARLAND, R. A.**
- NIX, J. T., FLOCK, EUNICE V. and BOLLMAN, J. L.**
Cirrhosis and proteins of cisternal lymph, 1951, 164: 117
- , MANN, F. C., BOLLMAN, J. L., GRINDLAY, J. H. and FLOCK, EUNICE V. Alterations of protein fractions of lymph, 1951, 164: 119
- NIXON, W. L.: see TIPTON, S. R.**
- NOBACK, C. R.: see REMINGTON, J. W.**
- NOBLE, R. L.** Development of resistance to trauma, 1943, 138: 346
- Motion sickness in dogs, 1948, 154: 443
- and COLLIP, J. B. Hypophysis and adrenals in histamine shock, 1941, 133: 623
- NOBLE, R. P.: see HAMILTON, W. F.**
- NOELL, W. and CHINN, H. I.** Visual pathway during anoxia, 1950, 161: 573
- NOLASCO, J. B.: see KOHRMAN, R. M.**
- NOMAGUCHI, G. M.: see NICKERSON, M.**
- NOMOGRAM**
for contractility, 1951, 165: 525
for obtaining volume of dog heart, 1950, 161: 469

NON-AVOIDANCE CONDITIONING: *see* CONDITIONED REFLEXES

NON-PROTEIN NITROGEN

in hemorrhagic shock, 1945, 145: 33

of blood, acclimatization to high altitude, 1947, 149: 574

anesthesia, 1950, 160: 279

callicrein, 1944, 142: 531

comparison of effects of intraabdominal pressure and nephrectomy, 1951, 167: 243

evisceration, 1950, 160: 250

following hepatectomy, 1938, 121: 210

following hepatectomy and nephrectomy, 1938, 121: 211

hormones, 1942, 137: 200

in hemorrhagic shock, 1946, 147: 306

methyl xanthines, 1946, 147: 429

pyridoxine deficiency, 1946, 146: 733

starvation, recovery, 1947, 151: 526

of blood and urine following hepatectomy, 1938, 121: 204

of exudates, diabetes, 1941, 134: 527

of genital tract, 1940, 130: 290

of muscle, 1946, 145: 575; 1946, 145: 584

of plasma, after burns, 1947, 148: 367

gravity shock, 1944, 141: 166

in radiation syndrome, 1951, 165: 30

radiation syndrome, 1951, 165: 43

of serum, insulin, 1938, 123: 610

of serum and cells in pregnancy, 1942, 137: 386

of urine, adrenal glands, 1947, 149: 511

adrenalectomy, food intake, 1946, 147: 222

NOOJIN, R. O.: *see* COON, J. M.

NOONAN, T. R., FENN, W. O. and HAEGE, LORRAINE F. Exchange of radioactive potassium in muscle, 1941, 132: 612

—, FENN, W. O. and HAEGE, LORRAINE F. Radioactive potassium, 1941, 132: 474

— *See* FENN, W. O.

— *See* MULLINS, L. J.

NOR-EPINEPHRINE

adrenal cortex, 1950, 160: 491

adrenocortical steroids and vascular responses to, 1951, 165: 456

anxiety, 1951, 166: 314

arterial pressure, 1950, 160: 422

as cardiac accelerator, 1940, 130: 194

bioassay of, 1951, 166: 317

blood sugar, 1938, 121: 728

933F, 1938, 124: 62

fluorimetric studies of, 1950, 161: 268; 1951, 166: 304

hyperglycemia and, in emotional excitement, 1938, 121: 738

intestinal motility, 1938, 123: 424; 1939, 126: 241

N-isopropyl, cardiac systole and cycle relations, 1948, 154: 12

stroke volume of heart, 1948, 153: 293

nictitating membrane after ergotoxine, 1940, 128: 696

of aqueous humor, 1938, 124: 272

of blood, 1949, 159: 440

of frog heart, calcium, 1938, 123: 256

reaction of human umbilical artery to, 1951, 164: 86
of partially denervated smooth muscle to, 1940, 130: 475

renal blood flow, 1951, 167: 542

NORITE

injection of leucocyte count, 1951, 165: 559

NORRIS, E. R. and DONALDSON, L. R. Growth of fish fed fat and cholesterol, 1940, 129: 214

— and ELLIOTT, H. W. Tolerance to arsenic trioxide in rat, 1945, 143: 635

— and MAJNARICH, J. J. Pteridines and cell proliferation, 1948, 153: 488; 1948, 153: 492; 1948, 153: 496

and MAJNARICH, J. J. Serum and cell proliferation, 1948, 153: 483

— and MAJNARICH, J. J. Xanthopterin and cell proliferation, 1948, 152: 175

— and MAJNARICH, J. J. Xanthopterin and hematopoiesis, 1948, 153: 133

— and MAJNARICH, J. J. Xanthopterin and other pteridines, 1948, 152: 652

— and MAJNARICH, J. J. Xanthopterin in anemia, 1948, 152: 179

— *See* ELLIOTT, H. W.

NORTHUP, D. W. and VAN LIERE, E. J. Anoxia and absorption of glucose and glycine, 1941, 134: 288

—, STICKNEY, J. C. and VAN LIERE, E. J. Carbon dioxide and intestinal motility, 1949, 158: 119

— *See* BELL, R., JR.

— *See* STICKNEY, J. C.

— *See* VAN LIERE, E. J.

NOSE

mucosa, temperature and volume of, 1945, 144: 305

secretions, histamine-like substance in, 1945, 144: 711

septum, vascular activity in, 1939, 127: 671

NOVOCAIN

intracranial, in frog, 1948, 154: 80

NUCLEIC ACID

of liver, thyroxine, 1949, 157: 225

rate of liver regeneration, 1951, 164: 251

NUCLEO-PROTOPLASMIC RATIO

of vertebrate retinae, 1943, 139: 15

NUTRITIONAL STATUS

factors influencing biochemical appraisal of, 1946, 145: 625; 1947, 149: 142

renotrophic and androgenic activity of steroids, 1946, 145: 551

NUTRITIVE DENSITY (OF FOOD)

food intake, 1949, 158: 184

NUTT, M. E.: *see* BARCLAY, J. A.

NUZUM, F. R.: *see* DALTON, J. W.

NYCTALOPIA: *see* NIGHT BLINDNESS

NYLIN, G. Work and circulating red corpuscles, 1947, 149: 180

NYSTAGMUS

thiamin deficiency, 1944, 141: 445

OATS

diet production of hyperparathyroidism by, 1939, 125: 742

rabbit ovulating factor from, 1944, 142: 488

See page iii for guide to use of index

- OBERHELMAN, H. A., JR., WOODWARD, E. R., SMITH, C. A. and DRAGSTEDT, L. R. Sympathectomy and gastric secretion, 1951, 166: 679
 — See DRAGSTEDT, L. R.
- OBERLE, ELIZABETH A.: *see* INGLE, D. J.
- OBESITY
 experimental, in dog, 1944, 141: 549
 following goldthioglucose, 1950, 162: 428
 hereditary, temperature regulation, 1948, 152: 197
 hypothalamic, activity, 1946, 147: 708
 body weight, 1946, 147: 695
 chronic hypopituitarism, 1943, 140: 89
 eating habits, 1946, 147: 735
 O₂ consumption and food-feces ratio in, 1946, 147: 717
 respiratory quotient, 1946, 147: 727
- OCCIPITO-PARIETO-TEMPORAL LOBES
 lesions in, olfactory conditioned reflexes, 1940, 128: 754
- OCCCLUSION
 aortic, hemodynamics of, 1949, 157: 168
 coronary, collateral blood flow after, 1939, 127: 161
 ventricular fibrillation following, 1940, 131: 309
 of femoral vein, and shock, 1941, 134: 755
- OCELOT
 blood sugar, body temperature changes following emotional excitation, 1939, 125: 731
- OCTADECYLAMINE SALTS
 as histamine releasing agents, 1951, 167: 234
- O'DONNELL, F.: *see* BEAN, J. W.
- ODUM, E. P. Muscle tremors and temperature regulation in birds, 1942, 136: 618
- OENETHYL
 cardiac output, 1949, 157: 353
- OGDEN, E. Respiratory flow in mustelus, 1945, 145: 134
 — and TRIPP, ELEANORE. Diuresis and urea production, 1948, 153: 190
 —, BROWN, L. T. and PAGE, E. W. Renal hypertension and arterial muscle sensitivity, 1940, 129: 560
 —, PAGE, E. W. and ANDERSON, EVELYN. Posterior hypophysectomy and renal hypertension, 1944, 141: 389
 — See ANDERSON, EVELYN
 — See BURLINGAME, P.
 — See PAGE, E. W.
 — See RALSTON, H. J.
 — See REED, RACHEAL K.
 — See TRIPP, ELEANORE
- OGLE, CORDELIA: *see* MILLS, C. A.
- OHLSON, MARGARET A., CEDERQUIST, DENA, DONELSON, EVA G., LEVERTON, RUTH M., LEWIS, GLADYS K., HIMWICH, WILLIAMINA A. and REYNOLDS, MAY S. Erythrocyte characteristics in young women, 1944, 142: 727
 — See DONELSON, EVA G.
 — See PITTMAN, MARTHA S.
- OIL GLAND: *see* BROWN ADIPOSE TISSUE
- OKEY, RUTH, PENCHARZ, R. I. and LEPKOVSKY, S. Sex hormones and biotin deficiency, 1950, 161: 1
 — See KENNEDY, BARBARA
- OLCESE, O.: *see* COUCH, J. R.
- OLEIC ACID
 bile and jejunal absorption of, 1942, 135: 776
 glucose and, respiratory quotient of, 1942, 135: 744
 interfacial tension between, and water, 1946, 145: 612
 lytic activity in vivo, 1941, 132: 19
 muscle sensitivity to acetylcholine, potassium, 1946, 145: 611
 respiratory quotient in the rat, 1942, 135: 744
- OLFACTORY NERVES
 resection and water drinking, 1939, 126: 13
- OLFACTORY SYSTEM
 diagram of central representation, 1940, 128: 767
- OLIGURIA
 due to anoxia, 1940, 129: 532
- OLIVE OIL
 bile output, 1938, 122: 338
 metabolic effect of ingestion of, 1939, 126: 114
 nutritive value of, 1947, 148: 47
- OLIVER, JEAN: *see* WALKER, A. M.
- OLMSTED, J. M. D. and MORGAN, M. W., JR. Cervical sympathetic nerve and lens of the eye, 1941, 133: 720
 — and MORGAN, M. W., JR. Nervous control of ciliary muscle, 1939, 127: 602
 — See GULLBERG, J. E.
 — See KOSUPKIN, J. M.
 — See LAYTON, A.
 — See MOHNEY, J. B.
 — See MORGAN, M. W., JR.
 — See WATROUS, W. G.
- OLSEN, N. S. Renal hypertension, 1950, 161: 448
 — and SCHROEDER, H. A. Oxygen tension and PH of renal cortex, 1950, 163: 181
- OLSON, W. H. Natural isohemagglutination in dogs, 1940, 131: 203
 — and NECHELES, H. Vasopressor effect of thermal trauma, 1943, 139: 574
 —, WALKER, L. and NECHELES, H. Function of total stomach pouch, 1951, 164: 557
 — See GUTMANN, H.
 — See NECHELES, H.
- OMACHI, A.: *see* GRIFFITH, F. R., JR.
 — See LIFSON, N.
- OPDYKE, D. F. Blood sugar of chicks after insulin injection, 1943, 139: 563
 — Circulatory effects of partial cerebral ischemia, 1946, 146: 467
 — Use of neosynephrin in hemorrhagic shock, 1944, 142: 576
 — and BERGERON, G. Skeletal muscle tonus and hemorrhagic shock, 1945, 143: 119
 — and BRECHER, G. A. Interatrial septal defect and mitral stenosis, 1951, 164: 573
 — and BRECHER, G. A. Intrathoracic pressure and atrial pressures, 1950, 160: 556
 — and FOREMAN, R. C. Coronary flow in hemorrhagic hypotension and shock, 1947, 148: 726
 — and WIGGERS, C. J. Ventricular activity during hemorrhagic shock, 1946, 147: 270

- OPDYKE, D. F., DUOMARCO, J. L., DILLON, W. H., SCHREIBER, H., LITTLE, R. C. and SEELY, R. D. Simultaneous atrial pressure pulses, 1948, 154: 258
- , VAN NOATE, H. F. and BRECHER, G. A. Inspiration and atrial inflow, 1950, 162: 259
- See BRECHER, G. A.
- See LITTLE, R. C.
- See WIGGERS, C. J.
- OPOSSUM
- adrenalectomized, renal function in, 1938, 121: 528
- blood sugar, body temperature changes on emotional excitation, 1939, 125: 731
- gravitational shock in, 1951, 165: 540
- potassium administration and carbohydrate metabolism, 1938, 122: 525
- renal function in, 1938, 121: 528; 1938, 123: 630
- resistance to anoxia, 1945, 145: 191
- vitamin A reserves of, 1938, 123: 695
- OPPENHEIMER, ENID T.: see BARACH, A. L.
- See FRIEDMAN, B.
- See KING, B. G.
- OPPENHEIMER, M. J. Autonomic control of retractor penis in the cat, 1938, 122: 745
- and FLOCK, EUNICE V. Alkaline phosphatase levels after hepatectomy, 1947, 149: 418
- , LONG, JOAN, DURANT, T. M. and WESTER, MARY R. Genesis of the electrocardiogram, 1949, 159: 476
- See DURANT, T. M.
- See RING, G. C.
- See ROBINSON, H. W.
- See SPIEGEL, E. A.
- OPPER, L. and THALE, T. Factors in hyperplasia of parathyroid glands, 1943, 139: 406
- OPTIC CORTEX: see CEREBRAL HEMISPHERES, CORTEX
- OPTIC NERVES
- metabolism of, 1942, 138: 142
- receptive fields of fibers, 1940, 130: 690
- retinal illumination, 1938, 121: 400
- spatial summation in retina, 1940, 130: 700
- OPTIC STIMULI
- for cutaneous reflexes, 1943, 139: 525
- OPTIC TRACT
- potentials during anoxia, 1950, 161: 576
- OPTICAL DENSITY
- light transmittance of whole blood, 1951, 165: 229
- of plasma, heparin, 1948, 152: 577
- ORAHOVATS, P. D.: see ALLEN, T. H.
- ORANG-UTAN
- inulin and creatinine excretion by, 1938, 122: 134
- ORCINOL
- adrenaline oxidation by tyrosinase, 1942, 136: 67
- ORDWAY, N. K.: see PRESTON, SYLVIA N.
- ORGAN OF CORTI: see EAR
- ORGAN OF HIBERNATION: see BROWN ADIPOSE TISSUE
- ORIAS, O., BROOKS, C. McC., SUCKLING, E. E., GILBERT, J. L. and SIEBENS, A. A. Ventricle excitability, 1950, 163: 272
- , GILBERT, J. L., SIEBENS, A. A., SUCKLING, E. E. and BROOKS, C. McC. Auricular fibrillation and shock, 1950, 162: 219
- See BROOKS, C. McC.
- See SUCKLING, E. E.
- ORLOFF, J. and BLAKE, W. D. Albumin and metabolism, 1951, 164: 167
- See STEVENSON, J. A. F.
- ORNITZ, E. M., JR.: see PRINZMETAL, M.
- ORR, H. W.: see DINNING, J. S.
- ORR, W. F., JR. and GRAY, MARY E. Blood plasma and prothrombin, 1950, 163: 148
- ORTAL
- cardiac vagus nerve, 1940, 129: 15
- ORTEN, ALINE U.: see ORTEN, J. M.
- See SAYERS, G.
- ORTEN, J. M. and ORTEN, ALINE U. Polycythemia from cobalt in low-protein rats, 1945, 144: 464
- See BUCCIERO, MARY C.
- See MORITA, Y.
- See SAYERS, G.
- ORTH, O. S.: see MAISON, G. L.
- ORTHOSTATIC CIRCULATORY FAILURE: see SHOCK, GRAVITATIONAL
- ORTHOSTATIC INSUFFICIENCY
- demonstration of, 1945, 143: 13
- 3-ORTHOTOLOXY-1,2-PROPANEDIOL: see MYANESIN
- OSBORNE, J. W.: see QUASTLER, H.
- OSBORNE, S. L., GRODINS, F. S., GOLDMAN, L. and IVY, A. C. Hyperpyrexia and the secretion and flow of bile, 1941, 132: 32
- See GRODINS, F. S.
- See KOSMAN, A. J.
- OSCILLOGRAMS
- of acoustic cortex, 1945, 144: 392
- OSCILLOSCOPIC RESPIROGRAPH
- respiratory volumes of laboratory animals recorded with, 1947, 150: 74
- OSEBOLD, J.: see CARNES, W. H.
- OSHER, W. J. Change of vital capacity, 1950, 161: 352
- OSMOTIC PRESSURE
- absorption in gut, 1945, 144: 458
- changes in gastrointestinal fluids following water intake, 1945, 144: 355
- due to protein, in capillaries, 1948, 152: 471
- during intestinal absorption, 1945, 144: 468
- environmental conditions, 1940, 129: 77; 1940, 129: 92
- environmental temperature, 1947, 149: 310
- filtration rate, 1944, 142: 674
- frog heart rate, 1938, 124: 185
- in gut, adrenal cortical hormones, 1940, 129: 186
- of the plasma, release of pituitrin, 1945, 144: 311
- OSMOTIC WORK
- intestinal absorption, 1938, 121: 771; 1940, 129: 176
- OSTEOPOROSIS
- after gastrectomy, 1938, 121: 137
- OSTER, R. H. and SMITH, D. C. Effect of adrenaline on blood sugar and hypoxia, 1947, 150: 321
- , TOMAN, J. E. P. and SMITH, D. C. Cortical recovery after hypoxia, 1944, 141: 410
- See ROOT, W. S.
- See SMITH, D. C.
- See TOMAN, J. E. P.
- OTA, R. K.: see QUICK, A. J.

- OTIS, A. B. and PROCTOR, D. F. Measurement of alveolar pressure in man, 1948, 152: 106
- , RAHN, H., EPSTEIN, M. A. and FENN, W. O. Performance as related to composition of alveolar air, 1946, 146: 207
- , RAHN, H. and FENN, W. O. Alveolar gas in breath holding, 1948, 152: 674
- , RAHN, H. and FENN, W. O. Venous pressure and positive intrapulmonary pressures, 1946, 146: 307
- See FENN, W. O.
- See RAHN, H.
- OTTENBERG, R. and FOX, C. L., JR. Renal threshold for hemoglobin, 1938, 123: 516
- OUABAIN
blood electrolytes, 1942, 137: 12
embryonic heart, 1938, 122: 753
ion, in cardiac contractility, 1951, 165: 525
vitamin E deficient animals, 1944, 141: 245
- OVALBUMIN
sensitivity of mucosal and peritoneal surfaces of ileum to, 1946, 145: 678
- OVARIECTOMY
adrenal function, 1946, 146: 135
adrenal response to, caloric restriction, 1949, 157: 193
electrical potential in rat, 1938, 121: 569
gall bladder evacuation, 1942, 135: 349
gastric secretion, 1947, 150: 376
insulin of pancreas, 1944, 141: 609
renal function, 1947, 149: 408
- OVARIES
antigonadotropic serum and weight, 1942, 136: 294
content of ascorbic acid and glutathione, 1940, 128: 655
diet and weight, 1941, 131: 646
differential action of gonadotropic hormones on, 1938, 121: 633
dysfunction in alloxan diabetes, 1947, 150: 86
enzymatic conversion of cyanide to thiocyanate in, 1948, 153: 351
hypertension, adrenalectomy and weight of, 1939, 125: 589
influence on adrenal size, 1945, 144: 653
interrelationship of gonadotropic hormones affecting, 1938, 121: 625
perfused, storage of estrone in, 1951, 167: 166
response to gonadotropins and nephrectomy, 1943, 138: 241
to injections of pregnancy urine in guinea pigs, 1940, 128: 427
size and body weight in chicks, 1940, 129: 286
vitamin E deficiency, 1941, 132: 264
water content, diet and exercise, 1940, 128: 539
weight and total solids, gonadotropins, 1943, 139: 89
- OVERBEY, D. T., MOORE, J. C., SHADLE, O. W. and LAWSON, H. C. Disappearance of dye T-1824 from blood, 1947, 151: 290
- See LAWSON, H. C.
- OVERFEEDING
resistance to G forces, 1949, 156: 137
- OVERMAN, R.: see DRILL, V. A.
- OVERMAN, R. R. Alterations in cell permeability, 1948, 152: 113
- and FELDMAN, H. A. Seasonal variation in fluid volumes in monkey, 1947, 148: 455
- and WANG, S. C. Afferent nervous factor in experimental shock, 1947, 148: 289
- , DAVIS, A. K., and BASS, ANNE C. Cortisone and DCA on Na turnover dynamics, 1951, 167: 333
- See DAVIS, A. K.
- See EVERSOLE, W. J.
- See FLANAGAN, J. B.
- See KLEINBERG, W.
- See STERN, T. N.
- See SWINGLE, W. W.
- See WANG, S. C.
- See ZILVERSMIT, D. B.
- OVERMAN, R. S.: see FIELD, J. B.
- OVERSTREET, M. R.: see ABBOTT, O. D.
- OVIDUCT
acetylcholine relaxation of, 1940, 131: 240
weight, potency of synthetic estrogens, 1946, 147: 584
- OVULATION
adrenalectomy, 1938, 123: 237
due to coitus-excitation of pituitary, 1938, 121: 157
induced, as test for pregnancy, 1946, 145: 387
by frozen plant juice, 1942, 137: 637
by green-leaf extract in rabbits, 1939, 125: 486
by hormone treatment, 1941, 132: 405
potential, validity of, 1943, 140: 394
stimulation factor from plant juice, 1944, 142: 487
- OVUM
implantation and frequency of insemination, 1940, 130: 471
- OWEN, C. A., JR., MAGATH, T. B. and BOLLMAN, J. L. Prothrombin conversion factors, 1951, 166: 1
- OWENS, F. M., JR.: see ALLEN, J. G.
- See VERMEULEN, C.
- Ox
adrenaline and acetylcholine in pupillary regulation, 1941, 133: 106
conduction in Purkinje tissue, 1951, 165: 173
- OXALACETATE
as substrate for perfused rat heart, 1949, 158: 272
- OXALATE
blood coagulation, 1940, 130: 576
K, blood coagulation, 1940, 128: 401
muscle contraction, 1946, 145: 420
- OXINE
nerve conduction, 1950, 163: 197
- OXYGEN
absorption from colon, 1948, 153: 479
availability, occurrence of edema, 1938, 124: 360
blood transport in anesthesia, 1948, 153: 82
breathing and nitrogen clearance, 1942, 137: 715
cerebral blood flow, 1943, 138: 426
dangers in administration following anoxia, 1944, 142: 483
deprivation, visual after-image, 1943, 140: 354
diffusion pressure, acclimatization to high altitude, 1947, 149: 571
EEG in hypoglycemia, 1942, 136: 4

OXYGEN

- equilibrium with hemoglobin, methemoglobin, 1942, 137: 56
- exchange in respiratory dead space, 1948, 155: 420
- impaired visual sensitivity due to insulin, 1945, 145: 305
- inhalation, nitrogen of blood, 1947, 151: 71
- respiration, 1943, 138: 610
- intravenous, respiration, circulation, 1939, 127: 228
- mobilization from spleen in severe hypoxia, 1951, 165: 215
- rate of carbon monoxide uptake, 1945, 143: 602
- resistance to G forces, 1946, 146: 43
- transfer, across alveoli, 1946, 147: 204
- transport, in blood of ducks, 1946, 146: 223

OXYGEN CAPACITY

- factors affecting determination of, 1944, 142: 709
- of adult duck blood, 1946, 146: 224
- of blood, 1944, 140: 485
- pulmonary arteriovenous fistula, 1951, 165: 516

OXYGEN CONSUMPTION (BODY OR PARTS OF BODY)

- acclimatization to cold, 1951, 167: 651
- to high oxygen, 1944, 142: 469
- adrenaline, 1940, 128: 284; 1940, 129: 160; 1942, 137: 533; 1947, 149: 71
- in peripheral tissues, 1939, 125: 702
- adrenocortical hormones, 1938, 121: 543
- anesthesia, 1943, 140: 184
- anoxia, 1946, 146: 321
- body temperature, 1949, 156: 62
- at high altitude, 1946, 146: 712
- during exercise, 1945, 144: 637
- at high barometric pressure, 1941, 131: 633
- body build, 1940, 129: 1
- body temperature, 1947, 149: 457; 1950, 161: 368; 1951, 166: 99
- in shock, 1947, 149: 451
- changes in blood flow, 1947, 149: 531
- cold, 1943, 139: 194
- cold environment, 1950, 163: 81
- continuous graphic recording of, 1944, 142: 746
- cooling, 1941, 134: 601; 1948, 155: 360
- by immersion, 1949, 157: 437
- dibenzamine and in hemorrhage, 1950, 161: 116
- dinitrophenol, 1946, 147: 527
- endocrines, 1947, 151: 240
- exercise, 1941, 135: 39; 1942, 138: 17; 1944, 142: 204; 1947, 149: 600; 1950, 162: 59
- ischemia, 1942, 138: 21
- sex, 1942, 137: 320
- extreme cold, 1947, 150: 102
- glucose ingestion, 1940, 128: 557
- helium exposure, 1951, 164: 248
- hemorrhage, 1950, 161: 111
- horizontal and grade walking, 1946, 145: 397
- hypothalamic obesity, 1946, 147: 717
- hypothermia, 1949, 157: 108; 1950, 160: 129
- hypothermic hamster, 1951, 166: 65
- infant rats after cooling, 1948, 155: 358
- ingestion of carbohydrate, 1941, 133: 688
- of food, 1942, 135: 743

insulin and, in hypophysectomized rats, 1938, 124: 786

- intestinal obstruction, 1947, 149: 498
- measured by Open-Circuit apparatus, 1950, 161: 360
- nerve conduction, 1950, 162: 458
- of athletes and non-athletes, 1940, 129: 166
- of hind leg of cat, 1949, 157: 205
- of man immersed in water, 1946, 146: 265
- of white grunt, *Bathystoma* sp., 1948, 153: 217
- partial inanition, 1951, 167: 617
- positive pressure breathing, 1946, 146: 169
- pyrogen fever, 1949, 159: 512; 1950, 161: 530
- rate during the day, 1946, 147: 286
- serum chloride, 1943, 139: 80
- shock, 1948, 153: 71
- sodium chloride, 1943, 139: 85
- subcutaneous histamine, 1947, 148: 136
- thermal reactions due to ergotoxine, 1949, 156: 172
- thyroxin and after bile duct ligation, 1950, 162: 18
- trauma, 1947, 151: 38
- treadmill walking, 1946, 145: 393
- in extreme cold, 1947, 150: 105
- under chloralose anesthesia, 1941, 131: 564

OXYGEN CONSUMPTION (TISSUES AND ORGANS)

- adrenalectomy and, in excised tissue, 1941, 132: 74
- anoxia and, in excised tissues, 1945, 144: 88
- areas of adrenal cortex, 1951, 167: 341
- ascorbic acid-ascorbic acid oxidase system, thyroxin, 1951, 167: 349
- brain, age, drugs and, 1941, 132: 294
- developing, 1942, 136: 601
- factors affecting, 1942, 137: 327
- following shock and anoxia, 1945, 144: 683
- hypoglycemia, 1939, 125: 580
- in vivo, 1945, 143: 33
- inhibition by drugs, 1949, 157: 301
- perfused, 1943, 140: 195
- perfused in living cat, 1947, 149: 528
- brain cortex, kidney, and muscle, adrenalectomy, 1940, 130: 235
- brain parts, age, 1941, 132: 455
- brain slices, 1939, 127: 710
- Ca, Mg, phenobarbital, 1951, 166: 219
- brain tissue, after anoxia, 1945, 144: 334
- of infant and adult, 1939, 125: 601
- brown adipose tissue, hibernation, 1941, 133: 58
- cerebral cortex and brain stem, 1944, 141: 513
- cerebrum during pentothal anesthesia, 1946, 147: 343
- denervated intestine, 1942, 135: 653
- diabetic heart and diaphragm, 1949, 158: 261
- diaphragm from growth hormone in rats, 1939, 125: 756
- dinitrophenol, 1944, 141: 35
- erythrocytes, adrenalectomy, 1947, 149: 504
- heart, after sympathetic nerve stimulation, 1950, 163: 539
- coronary circulation, 1947, 149: 640
- coronary flow, 1950, 162: 524
- during failure, 1946, 147: 28
- during work, 1941, 134: 642
- in unanesthetized dogs, 1950, 160: 149

- in vitro, 1944, 142: 198
- isolated mammalian, 1939, 125: 467
- heart slices, temperature, anoxia, 1950, 163: 642
- in potassium deficiency, 1951, 167: 319
- in vitro, media, 1939, 127: 296
- pH, 1939, 127: 290
- isolated tissues, pH, 1941, 132: 564
- kidney, in renal hypertension, 1938, 122: 38
- shock, 1946, 145: 340
- unilateral nephrectomy, 1938, 122: 611
- liver, hypothermia, 1947, 149: 555
- substrate, 1941, 135: 183
- T-1824, 1951, 164: 127
- liver and kidney, 1938, 122: 113
- hormones, 1938, 122: 167; 1938, 122: 296
- liver slices during anoxia, 1946, 147: 181
- following anoxia, 1945, 144: 669
- following burns, 1945, 144: 666
- following shock, 1945, 144: 679
- in fever, 1951, 166: 113
- lung, 1951, 166: 42
- muscles, 1944, 142: 398
- in vitamin E deficiency, 1943, 138: 328
- normal and denervated, 1939, 127: 611
- normal and dystrophic, 1941, 131: 597
- resting and active, 1941, 135: 238
- sodium azide, 1939, 126: 196
- normal and arsenite poisoned tissue, 1945, 143: 641
- pancreas, histological changes, 1949, 157: 278
- perfusion with shed blood, 1941, 133: 24
- peripheral nerves in vitro, 1946, 147: 87
- pyloric muscle, high oxygen concentrations, 1945, 145: 215
- quinidine, 1942, 136: 387
- retina, 1943, 139: 9
- shed blood, 1950, 160: 171
- skin of rat, 1943, 138: 408
- spermatozoa, 1941, 133: 602; 1943, 138: 512
- age, 1941, 134: 546
- ejaculated, 1943, 138: 741
- epididymal, 1942, 136: 73
- human, 1940, 128: 409; 1941, 132: 199
- lithium chloride, 1949, 157: 179
- spinal cord, chromatolysis, 1944, 141: 421
- temperature, 1944, 142: 37
- thiouracil, 1944, 141: 93
- tissue slices, salicylates, 1951, 164: 727
- turtle heart in D₂O, 1940, 129: 669
- uterus in pregnancy, 1940, 128: 656
- vertebrate retina, 1943, 139: 11
- white blood cells, 1938, 123: 420
- OXYGEN DEBT**
 - in frog tissues, 1939, 127: 281
 - in shock, 1948, 153: 77
- OXYGEN DISSOCIATION CURVES: see OXYGEN TENSION**
- OXYGEN LACK: see ANOXIA**
- OXYGEN POISONING**
 - cardiovascular response to, 1946, 146: 61
 - CO₂-O₂ tension of alveolar air in, 1946, 146: 652
 - dehydrogenase inactivation in, 1940, 131: 388
 - development of resistance to, 1944, 142: 462
 - hypothermia, 1949, 156: 177
 - in cardiac tissue, 1939, 126: 188
 - in drosophila, 1944, 140: 569
 - metabolic factors, 1945, 144: 270
 - thyroid, 1949, 156: 182
- OXYGEN PULSE**
 - as a measure of physical fitness, 1944, 142: 209
 - training and, during exercise, 1940, 129: 167
- OXYGEN SATURATION**
 - arterial, at various altitudes, 1947, 150: 3
 - chemoreceptors, 1951, 164: 226
 - comparison with oxygen tension, 1950, 160: 167
 - determined by in vivo equilibration, 1948, 152: 365
 - of normal human blood, 1948, 152: 365
 - oxygen tension, 1947, 149: 277
 - polycythemia, exercise, 1947, 148: 157
 - pulmonary arteriovenous fistula, 1951, 165: 517
 - determination of, by carbon monoxide method, 1941, 133: 128
 - light transmittance of whole blood, 1951, 165: 229
 - of blood, altitude, 1946, 145: 687
 - breath holding, 1947, 150: 146
 - consciousness, 1946, 145: 686
 - consciousness at high altitudes, 1946, 145: 686
 - following hemorrhage, 1948, 153: 521
 - of bone marrow and blood following hemorrhage, 1948, 153: 521
 - of hemoglobin, at high altitudes, 1947, 150: 204
 - of venous blood in man, 1938, 124: 15
 - review of values, 1938, 124: 18
- OXYGEN TENSION (OF)**
 - acclimatization to altitude, 1949, 157: 445
 - air, breath holding time, 1947, 150: 144
 - alveolar, 1946, 146: 652; 1946, 147: 191
 - at high altitudes, 1947, 150: 204
 - at rest and after exercise, 1947, 151: 276
 - arterial, 1950, 160: 163
 - acclimatization to high altitude, 1947, 149: 571
 - after intravenous oxygen, 1939, 127: 229
 - alveolar air, 1944, 142: 704
 - at various altitudes, 1947, 148: 145; 1947, 150: 2
 - during air or oxygen inhalation, 1948, 152: 696
 - following phosgene gassing, 1946, 147: 329
 - gravity shock, 1944, 141: 166
 - in man, 1942, 137: 238
 - pulmonary ventilation, 1946, 146: 617
 - while breathing pure O₂, 1946, 147: 54
 - blood after histamine injection, 1947, 148: 136
 - in hypothermia, 1951, 166: 58
 - in presence of CO, 1941, 134: 689
 - in tourniquet shock, 1945, 143: 99
 - lymph formation, 1940, 131: 331
 - blood and plasma, while breathing pure O₂, 1946, 147: 54
 - bone marrow blood, erythropoiesis, 1947, 150: 624
 - carbon dioxide tension in brain, 1948, 155: 191
 - coronary blood, 1939, 125: 465
 - coronary blood flow, 1947, 148: 593
 - determination of, 1944, 142: 709
 - errors in measurements of, 1944, 142: 703
 - factors affecting determination of, 1944, 142: 709

See page iii for guide to use of index

OXYGEN TENSION (OF)

- gradient, from alveolar air to arterial blood, 1946, 147: 199
- inspired air, lung volume, 1950, 163: 111
- renal cortex, 1950, 163: 181
- respiratory response to CO₂, 1940, 130: 779
- spinal cardiovascular centers, 1945, 143: 702
- uptake of carbon monoxide, 1945, 145: 347
- venous blood, following phosgene gassing, 1946, 147: 329

from cerebrum, 1946, 147: 517

OXYGEN TENSION, HIGH

- after effects on C.N.S., 1945, 143: 206
- anoxic effects on smooth muscle, 1940, 130: 445
- carbon dioxide production by muscle, 1947, 148: 495
- by tissues, 1947, 148: 499
- cardiac response to, 1943, 138: 763
- cardiac tissue, 1939, 126: 191
- effect on cats, 1945, 144: 270
- effects of exposure to, 1945, 143: 656
- erythrocyte response to CO₂, 1940, 129: 528
- inactivation of dehydrogenase by, 1940, 131: 388
- of enzymes by, 1944, 142: 388
- isolated striated muscle, 1938, 124: 576
- motility of spermatozoa, 1943, 138: 515
- oxygen consumption, and body weight during exposure to, 1944, 142: 469
- physiological activity of insulin, 1940, 131: 382
- pulmonary arterial pressure, 1947, 150: 316
- pyloric muscle, 1945, 145: 214
- respiratory and circulatory responses to, 1947, 149: 280
- response of smooth muscle to, 1944, 142: 379

OXYGEN TENSION, LOW

- acclimatization to and gastric emptying, 1942, 137: 161
- alterations in dark adaptation under, 1939, 127: 37
- blood sugar and resistance to, 1946, 146: 27
- peripheral blood flow, 1938, 124: 735
- pulmonary artery pressure, 1947, 150: 318
- respiration, glycolysis of bone marrow, 1941, 135: 252
- respiratory and circulatory responses to, 1947, 149: 282
- response to CO₂ under, 1942, 137: 257
- visual thresholds, 1944, 142: 333

OXYHEMOGLOBIN

- capacity, acclimatization to high altitude, 1947, 149: 572
- CO and dissociation curve, 1944, 141: 17
- of arterial blood, acclimatization to high altitude, 1947, 149: 572
- at critical altitudes, 1946, 145: 428
- work at critical altitudes, 1946, 145: 428
- rate of reaction with carbon monoxide, 1945, 143: 609
- reduction time, as a measure of physical fitness, 1946, 147: 636
- vascular occlusion, 1946, 147: 622; 1946, 147: 630

See page iii for guide to use of index

saturation, acclimatization to high altitude, 1947, 149: 572

pulmonary ventilation, 1946, 146: 617

OXYPOLYGEALIN

as infusion fluid following hemorrhage, 1947, 150: 641

OXYTIC PRINCIPLE: see POSTERIOR PITUITARY HORMONES, AND PITOCIN

OXYTICIN: see POSTERIOR PITUITARY HORMONES, AND PITOCIN

P.S.R.: see PALMAR SKIN RESISTANCE

PACE, N. Etiology of hypericism, 1942, 136: 650

—, CONSOLAZIO, W. V., WHITE, W. A., JR. and BEHNKE, A. R. Rate of uptake of carbon monoxide by man, 1946, 147: 352

—, LOZNER, E. L., CONSOLAZIO, W. V., PITTS, G. C. and PECORA, L. J. Hypoxia tolerance and polycythemia, 1947, 148: 152

— See CONSOLAZIO, W. V.

— See PITTS, G. C.

PACHMAN, D. J. Response of B₁ deficient rats to intravenous dextrose, 1941, 133: 43

PACKER, A.: see GELLHORN, E.

PAES, E. Heart rhythm-inducing substance, 1949, 159: 467

PAFF, G. H. and JOHNSON, J. R. Reaction of embryonic heart to ouabain, 1938, 122: 753

PAGE, E. B.: see ATWELL, R. J.

PAGE, E. W. and REED, RACHEAL K. Hypertensive effect of L-Dopa, 1945, 143: 122

—, OGDEN, E. and ANDERSON, EVELYN. Steroids and hypertension after hypophysectomy, 1946, 147: 471

— See ANDERSON, EVELYN

— See OGDEN, E.

PAGE, I. H. Adrenalectomy and experimental hypertension, 1938, 122: 352

— Arterial pressure and the liver, 1950, 160: 421

— Cardiovascular changes after severe scalds, 1944, 142: 366

— Effect on intestinal segments of hypertensive plasma, 1940, 130: 29

— Liberation of renin in experimental hypertension, 1940, 130: 22

— Pressor response of renin and angiotonin, 1941, 134: 789

— Vascular action of tetraethylammonium, 1949, 158: 403

— Vasoconstrictor substance in blood during shock, 1943, 139: 386

— and ABELL, R. G. Response of mesenteric blood vessels to hemorrhage, 1945, 143: 182

— and GREEN, A. A. Vascular refractoriness, 1949, 156: 405

— and LEWIS, LENA A. Adrenals and hypertension, 1951, 164: 61

— and LEWIS, LENA A. Experimental renal hypertension, 1949, 156: 422

— and TAYLOR, R. D. Variation of vascular reactivity, 1949, 156: 412

- , McSWAIN, B., KNAPP, G. M. and ANDRUS, W. D.
 . Origin of renin-activator, 1941, 135: 214
- , TAYLOR, R. D. and PRINCE, R. Noradrenaline-like substance in blood, 1949, 159: 440
- See CORCORAN, A. C.
- See GLASSER, O.
- See GLENN, F.
- See LEWIS, LENA A.
- See MASSON, G. M. C.
- See MCCUBBIN, J. W.
- See REINHARD, J. J., JR.
- PAGE, R. G.: see FOLTZ, E. L.
- PAGNIELLO, LUCIA: see MURPHY, ROSEMARY
- PAH: see PARA-AMINO HIPPUIC ACID
- PAIN
 at high altitudes, exercise, 1945, 145: 281
 cutaneous, histamine as mediator for, 1948, 155: 186
 ischemic, 1939, 127: 315
 pH, 1939, 125: 738
 work on time of onset, 1941, 132: 401
 muscle, cortically induced movements, 1944, 142: 232
 due to faradization, 1944, 142: 231
 muscle tone and reflexes in decerebrate cat, 1945, 144: 262
 sensibility to, after spinal cord asphyxiation, 1940, 131: 1
 skin temperature, 1947, 149: 630
- PAINTER, ELIZABETH E. Total body water in the dog, 1940, 129: 744
- , HOLMES, J. H. and GREGERSEN, M. I. Fluid distribution in dehydration, 1948, 152: 66
- See HOLMES, J. H.
- See WANG, S. C.
- PAINTER, R. H.: see BEYER, K. H.
- PAIRED FEEDING TECHNIC
 adrenalectomy and alloxan diabetes, 1946, 145: 539
- PALEY, K.: see SHERRY, S.
- PALITZ, L. L. Splenic volume and polycythemia of artificial fever, 1939, 125: 607
- PALLIUM
 primordium, respiration of in frog, 1942, 136: 53
 respiration during development, 1942, 136: 601
- PALMAR SKIN RESISTANCE
 physical condition, 1944, 142: 71; 1946, 147: 1
 work output, 1944, 142: 71
- PALMER, BETTY: see BOYD, E. M.
- PALMER, G. H. and JOSEPH, G. H. Capillary permeability of perfused vessels, 1946, 146: 126
- PALMES, E. D.: see EICHNA, L. W.
- PANCREAS
 acetylcholine synthesis, 1947, 148: 418
 achylia and vitamin K absorption, 1941, 135: 137
 adrenalectomy, gonadectomy and insulin in, 1944, 141: 608
 anti-fatty liver factor of, 1944, 141: 216
 chloride content of, 1938, 122: 228; 1940, 129: 600
 cholinesterase in, 1947, 148: 677
 enterocrinin in, 1938, 121: 483
 enzymes of, diet, 1944, 141: 38
 experimental feeding in salmon, 1943, 138: 560
 external secretion, bile in intestine, 1943, 138: 548
 blood sugar, 1941, 134: 208
 cinchophen, 1950, 163: 34
 protein digestion products, 1941, 134: 656
 vitamin K absorption, 1941, 135: 137
 extract, in renal hypertension, 1940, 130: 570
 lipotropic action of, 1951, 166: 433
 prevention of fatty liver with, 1945, 144: 620
 fatty livers, 1938, 122: 67
 formation of alkaline phosphatase, 1949, 156: 256
 function after duct ligation, 1950, 160: 115
 histamine content of juice and tissue, 1950, 162: 115
 histology after duct ligation, 1950, 160: 118
 hormonal control of secretion, 1948, 154: 358
 hyperglycemic principle from urine, 1939, 125: 566
 insulin content on response to alloxan, 1950, 160: 235
 lipotropic factors derived from, 1949, 156: 387; 1951, 166: 436; 1951, 166: 441
 operative procedure for autotransplantation, 1951, 164: 528
 oxidation of ethyl alcohol, 1939, 127: 308
 pituitary hormones and insulin content, 1942, 135: 405
 production of hyperglycemic substance in alloxan diabetes, 1949, 157: 197
 proteolytic activity of, 1948, 155: 33
 respiration of, and histological changes in, 1949, 157: 278
 volume measurement of islets of Langerhans, 1948, 152: 36
 zinc and insulin of, 1938, 121: 256
- PANCREATECTOMY
 blood and liver lipids, 1940, 129: 581
 blood sugar level and, in calf, 1949, 156: 349
 development of insulin resistance after, 1942, 136: 597
 fat absorption from intestine, 1943, 138: 792
 fatty liver after, 1942, 138: 42
 graded partial, 1940, 131: 437
 inflammation following, 1943, 138: 396
 ketosis in the duck, 1941, 135: 225
 ligation of lumbo-adrenal veins, 1938, 123: 725
 pancreatic diabetes in mouse, 1950, 160: 103
 partial, production of diabetes by in mouse, 1950, 160: 103
 phosphorus exchange between blood and muscle, 1941, 134: 42
 plasma amino nitrogen, 1948, 154: 87
 protein feeding and fatty liver after, 1942, 138: 42
 serum lipase, 1951, 164: 486
 specific dynamic action of fat, 1940, 131: 357
 water and electrolytes in diabetes due to, 1941, 132: 418
- PANCREATIC JUICE
 amount produced by various stimuli, 1941, 134: 659
 bile in intestine and secretion of, 1943, 138: 548
 characteristics and response to various stimuli, 1944, 140: 574
 collection from rats, 1951, 164: 814
 consequences of continued loss, 1951, 164: 815
 diet, 1944, 141: 39

PANCREATIC JUICE

- elimination of cobalt in, 1945, 145: 288
- of sodium in, 1941, 131: 578
- enzyme content of, 1944, 141: 509
- in fasting, hunger, 1940, 131: 60
- lack, blood and liver lipids, 1943, 138: 352
- protein constituents of, 1945, 145: 142
- secretin, 1941, 132: 308; 1941, 134: 245
- secretion after cutting extrinsic nerves, 1944, 141: 730
- source of anti-fatty-liver factor, 1947, 148: 240
- stimulation of flow by intestinal acid, 1940, 131: 349

PANCREATITIS

- acute hemorrhagic, serum lipase activity in, 1951, 166: 413

PANCREOTEST

- specific gravity and total nitrogen of pancreatic juice, 1944, 140: 575

PANCREOZYMIN

- excretion after pancreatic duct ligation, 1950, 160: 115
- isolated pancreatic tissue, 1949, 157: 281
- pancreatic secretion, 1948, 154: 358
- release in animals with transplanted pancreas, 1951, 164: 527

PANTING

- in mammals and birds, 1942, 138: 12
- in normal unanesthetized dogs, 1938, 121: 747
- pathways mediating in decorticate animal, 1939, 127: 665
- temperature control, 1943, 139: 58
- temperature regulation by in chickens, 1939, 127: 761
- threshold temperature, rate of heating and environmental temperature, 1938, 122: 511

PANTOTHENATE: *see* PANTOTHENIC ACID

PANTOTHENIC ACID

- biological utilization of esters of, 1942, 135: 267
- carbohydrate metabolism in rats, 1948, 153: 606
- essential nature for dogs, 1940, 130: 365
- metabolism of, 1941, 135: 69
- of body fluids during dietary restriction, 1946, 147: 47
- of liver, thiamin intake, 1945, 144: 646
- of urine, 1941, 135: 69
- of urine, blood, and feces, on various diets, 1947, 148: 624
- renal clearance of, 1946, 145: 634
- requirement during hyperthyroidism, 1942, 135: 475
- resistance to reduced pressure, 1945, 145: 132
- thrombin and enzymatic inactivation of, 1950, 162: 665
- urinary excretion of, on normal and restricted diets, 1947, 149: 145
- work output of perfused muscle, 1944, 142: 269; 1944, 142: 275

PANULIRUS INTERRUPTUS

- anoxia and peripheral nerves of, 1946, 147: 78

PAPAIN

- fibrin clot, 1943, 138: 648

PAPAVERINE

- blood flow in bronchial artery, 1947, 148: 661
- fibrillation and atrophy of denervated muscle, 1942, 135: 750
- ventricular fibrillation, 1941, 133: 155

PAPILLARY MUSCLES

- electrograms of, 1949, 156: 27

PAPILLEDEMA

- due to increased cerebrospinal pressure, 1940, 130: 685

PAPP: *see* p-AMINOPROPIOPHENONEPAPPENHEIMER, A. M.: *see* KAUNITZ, H.

- PAPPENHEIMER, J. R. and MAES, J. P. Measurement of vasomotor tone in muscles, 1942, 137: 187
- and SOTO-RIVERA, A. Protein osmotic pressure in mammalian capillaries, 1948, 152: 471
- , RENKIN, E. M. and BORRERO, L. M. Capillary permeability, 1951, 167: 13
- *See* COULTER, N. A., JR.

PARA-AMINO HIPPURIC ACID

- accumulation by kidney slices, 1950, 161: 181
- acetate and excretion of, 1950, 161: 191
- clearance, 1947, 150: 345, 1948, 152: 31; 1948, 155: 282
- after renal ischemia, 1945, 144: 398
- in normal and ischemic kidneys, 1946, 145: 379
- renin, 1948, 153: 458
- under anesthesia, 1945, 143: 112
- diffusion from cell to plasma, 1945, 145: 320
- disappearance from plasma after nephrectomy, 1951, 165: 102
- excretion of, during osmotic diuresis, 1949, 157: 365
- in hemorrhagic shock, 1945, 145: 322
- in traumatic shock, 1945, 145: 323
- plasma level, and self-depression of Tm_{PAH} , 1951, 167: 531
- potassium secretion, 1950, 161: 153
- protein binding of in plasma, 1951, 167: 248
- renal electrolyte metabolism, 1951, 167: 208
- tubular excretion of and ascorbic acid clearance, 1944, 142: 188
- tubular secretion of, salyrgan, 1948, 154: 537
- urinary excretion following dehydration, 1949, 156: 435

PARA-QUINONES

- hypertension, 1945, 143: 179

PARABIOSIS

- experimentally induced hypertension in, 1943, 138: 587
- hormones in, 1950, 163: 297
- model of, 1950, 161: 60
- nature of exchange in, 1950, 161: 56
- of adult male rats, 1939, 128: 169

PARALDEHYDE

- as an anticonvulsant in oxygen poisoning, 1945, 144: 276
- energy-rich phosphates and cardiodynamics in heart-lung preparation, 1947, 150: 739

PARALYSIS

- flaccid, in rats on various pure carbohydrate diets, 1946, 147: 13
- magnesium-potassium antagonism, 1951, 164: 702
- progressive, in biotin deficiency, 1945, 144: 175
- PARAPHENYLENEDIAMINE: *see* PHENYLENEDIAMINES, p-
- PARASYMPATHETIC NERVOUS SYSTEM
- heart rate, 1943, 138: 468
- hypothalamus, 1938, 122: 530

- inhibition, pupillary dilatation in anoxia, 1945, 143: 288
- response, in hypoglycemia, 1940, 128: 324
- section, bladder function, 1951, 166: 686
- PARATHYROID GLAND**
- adrenal gland, 1940, 128: 577
- calcium, and phosphorus metabolism, 1942, 135: 421
- diffusion of potassium, 1939, 126: 72
- eschatin, 1940, 128: 580
- estrogen and, action on bone, 1946, 147: 522
- function after hypophysectomy, 1943, 139: 188
- gastric glands in dog, 1942, 135: 663
- hyper-activity, produced by diet, 1939, 125: 741
- hyperplasia of, 1943, 139: 406
- maintenance of serum calcium in nephrectomy, 1944, 142: 105
- permeability of lens capsule, 1939, 126: 139
- rate of muscular dystrophy, 1939, 128: 98
- renal reabsorption of calcium and phosphorus, 1948, 155: 42
- PARATHYROID HORMONE**
- gastric glands in dog, 1942, 135: 662
- intestinal secretion, 1949, 158: 131
- Pavlov-pouch dog, 1942, 135: 662
- potassium intoxication tolerance, 1947, 151: 143
- renal excretion of phosphate, 1951, 165: 434
- serum calcium in renal insufficiency, 1940, 129: 243
- PARATHYROIDECTOMY**
- gastric glands, 1942, 135: 664
- histamine excretion, 1947, 150: 421
- renal reabsorption of phosphate, 1951, 164: 670
- tetany due to, 1942, 137: 461
- PARATHYROPRIVAL TETANY: see TETANY**
- PARAVENTRICULAR NUCLEI**
- anesthesia and blood supply to, 1940, 129: 653
- PARDO, E. G., RENNICK, BARBARA R. and MOE, G. K.**
- TEA on stellate ganglion, 1950, 161: 245
- PAREDRINE**
- in therapy for shock, 1942, 138: 1
- resistance to G forces, 1946, 146: 42
- PARIETAL LOBES**
- ablation of, olfactory conditioned reflexes, 1940, 128: 754
- cortex, vasodilator innervation in, 1939, 125: 216
- PARK, C. R.: see EICHNA, L. W.**
- PARKE, DAVIS SY-2: see N-ETHYL-N-(2-CHLORO-ETHYL) BENZHYDRYLAMINE HCl**
- PARKE, DAVIS SY-8: see 2-(2-BIPHENYLYLOXY)-2'-CHLOROTRIETHYLAMINE HCl**
- PARKE, DAVIS SY-21: see N-9-FLUORENYL-N-ETHYL-2-CHLOROETHYLAMINE HCl**
- PARKE, DAVIS SY 28: see 1-NAPHTHYLMETHYLETHYL-2-BROMOETHYLAMINE HBr**
- PARKE, DAVIS SY-73: see 1-NAPHTHYLMETHYLETHYL-2-HYDROXYETHYLAMINE HCl**
- PARKER, D.: see FERREBEE, J. W.**
- PARKINS, W. M., SWINGLE, W. W., REMINGTON, J. W. and DRILL, V. A.** Adrenal steroid as prophylactic in shock, 1941, 134: 426
- , SWINGLE, W. W., TAYLOR, A. R. and HAYS, H. W. Cortical hormone in adrenaline shock, 1938, 123: 668
- *See* HAMILTON, A. S.
- *See* MCCARTHY, M. D.
- *See* REMINGTON, J. W.
- *See* RHODE, C. M.
- *See* SWINGLE, W. W.
- PARMINGTON, S. L.: see ADOLPH, E. F.**
- PARPANIT: see MYANESIN**
- PARRACK, H. O.** Excitability of frog's sciatic nerve, 1940, 130: 481
- PARRISH, JOYCE: see HUF, E. G.**
- PARROT FISH**
- extracts of thyroid glands from, 1948, 153: 216
- radioactive iodine in thyroid of, 1948, 153: 222
- PARRY, T. M.: see GOLDENSOHN, E. S.**
- PARSLEY**
- in renal hypertension, 1940, 130: 570
- PARSON, W., MAYERSON, H. S., LYONS, C., PORTER, BLANCHE and TRAUTMAN, W. V., JR.** Circulating red cell volume, 1948, 155: 239
- *See* MAYERSON, H. S.
- *See* NIESET, R. T.
- PARSONS, H.: see COHN, R.**
- PARTURITION**
- micturition volume of rat, 1943, 139: 535
- PASCHKIS, K. E.** Pituitary and protein and carbohydrate metabolism, 1942, 136: 128
- , SHAY, H., GERSHON-COHEN, and FELS, S. S. Testosterone and masculinization of female rats, 1940, 129: 191
- PATCH, ELIZABETH A.**
- *See* BEYER, K. H.
- *See* WRIGHT, L. D.
- PATEK, A. J., JR., POST, J. and VICTOR, J.** Riboflavin deficiency in the pig, 1941, 133: 47
- PATELLAR REFLEX: see KNEE JERK**
- PATERSON, J. C. S.** Renal function in chronic anemia, 1951, 164: 682
- PATHMAN, J. H.: see DARROW, C. W.**
- PATRAS, MARY C. and WAKERLIN, G. E.** Skull bones and thyroparathyroidectomy, 1940, 131: 129
- , BROOKHART, J. M. and BOYD, T. E. Respiratory effects on ventricular filling, 1944, 142: 52
- , GALAPEAUX, E. A. and TEMPLETON, R. D. Dietary factors and thyroparathyroidectomy, 1938, 122: 409
- , TEMPLETON, R. D., FERGUSON, R. L. and HUMMON, I. F. Thyroparathyroidectomy and bone structure, 1941, 133: 617
- *See* BOYD, T. E.
- PATT, H. M. and SWIFT, MARGUERITE N.** Temperature and X-ray injury, 1948, 155: 388
- , STRAUBE, R. L., TYREE, E. B., SWIFT, MARGUERITE N. and SMITH, D. E. Estrogens and x-ray injury, 1949, 159: 269
- , SWIFT, MARGUERITE N., TYREE, E. B. and JOHN, E. S. Adrenal response to total body x-radiation, 1947, 150: 480
- , TOBIAS, J. M., SWIFT, MARGUERITE N., POSTEL, S. and GERARD, R. W. Hemodynamics in pulmonary irritant poisoning, 1946, 147: 329
- *See* TOBIAS, J. M.

- PATTERSON, J. W. Correlation between diabetes and cataract, 1951, 165: 61
 — and MASTIN, D. W. DHA and central nervous system, 1951, 167: 119
- PATTERSON, MARY B.: *see* SELKURT, E. E.
 PATTERSON, T. L.: *see* KAULBERSZ, J.
- PATTON, MARY B.: *see* PITTMAN, MARTHA S.
- PAULS, FRANCES and BANCROFT, R. W. Diabetes by partial pancreatectomy, 1950, 160: 103
 — and DRURY, D. R. Glucose absorption from intestine of diabetic rat, 1942, 137: 242
- PAYNE, W. T.: *see* ASHWORTH, C. T.
- PEACOCK, W.
 — *See* HAHN, P. F.
 — *See* LEBLOND, C. P.
- PEARCE, JANE and GERARD, R. W. Respiration of neurones, 1942, 136: 49
- PEARSON, O. H., HASTINGS, A. B. and BUNTING, H. Metabolism of cardiac muscle, 1949, 158: 251
 —, HSIEH, C. K., DUTOIT, C. H. and HASTINGS, A. B. Metabolism of cardiac muscle, 1949, 158: 261
- PEARSON, P. B. Excessive potassium and growth, 1948, 153: 432
 — Metabolism of pantothenic acid, 1941, 135: 69
 — *See* BACIGALUPO, F. A.
 — *See* SCHWEIGERT, B. S.
- PECCARY
 blood sugar and body temperature, emotional excitation, 1939, 125: 731
- PECORA, L. J.
 — *See* CONSOLAZIO, W. V.
 — *See* PACE, N.
 — *See* TALBOTT, J. H.
- PECTIN
 clotting time, 1945, 144: 453
- PEEK, C. McL.: *see* SNYDER, C. D.
- PEELE, T. L.: *see* GROAT, R. A.
- PEISS, C. N., FIELD, J. and HALL, V. E. Brain cholinesterase, 1948, 155: 56
 —, FIELD, J., HALL, V. E. and GOLDSMITH M. Fever and brain metabolism, 1949, 157: 283
 —, HALL, V. E. and FIELD, J. Antipyrine and brain metabolism, 1949, 157: 287
- PELLON, R.: *see* BAEZ, S.
- PELVIC BELT: *see* ABDOMINAL BELT
- PELVIC NERVES
 stimulation and colon, 1942, 138: 84
- PELVIS
 relaxation of ligatures, 1947, 151: 134
- PEN, D. F., CAMPBELL, J. and MANERY, JEANNE F. Toxic substances from muscle, 1944, 141: 262
- PENCHARZ, R. I.
 — *See* EVANS, H. M.
 — *See* LEPKOVSKY, S.
 — *See* OKEY, RUTH
- PENICILLIN
 excretion, inhibition by caronamide, 1947, 149: 358
 PAH accumulation in kidney slices, 1950, 161: 189
 renal clearance of, 1947, 149: 357
 survival of eviscerated rat, 1951, 166: 351
- PENICK, G. D.: *see* GRAHAM, J. B.
- PENIS
 sympathetically mediated erection, 1947, 151: 80
- PENMAN, R.: *see* CAMPBELL, W. N.
- PENNES, H. H.: *see* SCHMIDT, C. F.
- PENROD, K. E. Cardiac O₂ in hypothermia, 1951, 164: 79
 — Immersion hypothermia in dog, 1949, 157: 436
 — and HEGNAUER, A. H. Anesthesia and blood gases, 1948, 153: 81
 — *See* BROKAW, R.
 — *See* GROSSMAN, M. S.
 — *See* ROSENHAIN, F. R.
 — *See* WOLFF, R. C.
- PENTAMETHYLENE TETRAZOL
 acetylcholine metabolism, 1947, 151: 346
- PENTNUCLEOTIDE
 urea formation, 1946, 147: 428
- PENTOBARBITAL
 acetylcholine of brain, 1950, 162: 472
 acetylcholine metabolism, 1947, 151: 346
 amino acid nitrogen in blood, 1940, 130: 171
 anticonvulsant in oxygen poisoning, 1945, 144: 276
 blood picture, 1948, 152: 7; 1950, 160: 277
 blood pressure of dogs, 1939, 128: 236
 carbohydrate metabolism, 1938, 122: 759
 cardiovascular factors, 1949, 159: 383
 carotid occlusion, arterial pressure, 1950, 162: 554
 cervical lymph flow, 1948, 155: 50
 chronic renal hypertension, 1944, 141: 707
 concentration of red cells in spleen following anesthesia, 1943, 138: 415
 effects of, 1943, 140: 177
 energy-rich phosphates and cardiodynamics in heart-lung preparation, 1947, 150: 739
 ether and, blood concentration, 1943, 138: 458
 experimental hemorrhagic shock, 1950, 162: 243
 fibrillation and atrophy of denervated muscle, 1942, 135: 749
 flow and cell content of thoracic duct lymph, 1950, 160: 9
 hemorrhage and Hb with, 1944, 142: 41
 inhibition of pseudopregnancy, 1950, 161: 524
 injection, plasma volume, 1939, 125: 718
 injury potential, 1947, 150: 545
 magnesium, blood level, 1942, 135: 493
 narcosis, dilantin, 1951, 166: 718
 oxygen consumption of brain, 1941, 132: 294
 panting rate, 1939, 127: 764
 plantar reflexes, 1938, 124: 121
 potassium metabolism, 1950, 163: 622
 renal function, 1947, 150: 530
 blood pressure, 1943, 140: 234
 respiratory pattern, 1947, 150: 82
 temperature regulation, 1941, 134: 352
 thresholds of stimulation in brain stem, 1938, 121: 714
- PENTOSE
 formed from hexose, 1950, 162: 421
 of blood after tourniquet shock, 1946, 147: 66
 of plasma, in shock, 1945, 145: 97
 phosphate, of tissues in hemorrhagic shock, 1946, 147: 446

PEPSIN

- caffeine and activity of, 1943, 139: 343
- in hormonal stimulated gastric juice, 1944, 141: 506
- secretion, acid in intestine, 1944, 140: 708
- double histamine test for, 1941, 132: 654
- enterogastrone, 1944, 141: 283
- response to pilocarpine compared to histamine, 1941, 132: 698

PEPTIDASE

- in ileal secretion, 1939, 128: 75
- in jejunal secretion, 1939, 128: 74

PEPTONE SHOCK: *see* ANAPHYLAXIS

PEPTONES

- absorption, from large intestine, 1939, 125: 709
- from small intestine, 1939, 125: 709
- capillary permeability, 1942, 137: 426
- fat and, respiratory quotient of, 1942, 135: 744
- glucose and, respiratory quotient of, 1942, 135: 744
- protein constituents of pancreatic juice, 1945, 145: 144
- respiratory quotient, 1942, 135: 744
- specific gravity and total nitrogen of pancreatic juice, 1944, 140: 575

PERALTA, R. B.: *see* MOE, G. K.PERANDREN: *see* TESTOSTERONE PROPIONATEPERANDRENE: *see* TESTOSTERONE PROPIONATE

PERCEPTION, FORM

- brightness, 1948, 155: 409

PERCORTEN: *see* DESOXYCORTICOSTERONE

PERFUSION

- apparatus and standardized technique for studying, 1946, 146: 127
- capillary permeability of vessels, 1946, 146: 130
- circuit, diagram of, 1948, 152: 473
- intestinal, in uremia, 1951, 166: 137
- methods to study reflexes from heart and lungs, 1951, 165: 264
- pressure, filtration rate, 1944, 142: 677

PERICARDIAL CAVITY

- pH of in vivo, 1946, 146: 4

PERICARDIAL FLUID

- composition of, 1940, 129: 635
- increased, decrease of cardiac output by, 1951, 165: 278

PERICARDIUM

- pH of in vivo, 1946, 146: 4

PERINEPHRITIS

- induced by cellophane, 1940, 130: 22
- by silk, 1940, 130: 22

PERIPHERAL BLOOD FLOW

- adrenaline, 1938, 123: 543; 1939, 125: 702; 1947, 149: 64
- arteries, patterns in, 1943, 138: 718
- vasomotor drugs, 1943, 138: 731
- control of, 1947, 150: 304
- cutaneous, 1947, 150: 122
- cutaneous insensible perspiration, 1942, 137: 497
- femoral, hypotonic solutions, homologous blood, 1951, 165: 135
- finger, 1939, 127: 437
- automatic recording of, 1947, 151: 271
- climate, 1940, 129: 115

- fluctuations in, 1940, 129: 574
 - pressure breathing, 1947, 151: 270
 - finger pad, in skin of, 1947, 150: 126
 - foot, 1948, 152: 501
 - forearm, adrenaline injection, 1947, 150: 183
 - in skin of, 1947, 150: 127
 - hand, factors affecting, 1945, 145: 218
 - heat loss and, 1946, 146: 605
 - respiratory gas mixtures, 1938, 124: 735
 - helium diffusion, 1941, 131: 630
 - hind leg, of cat, 1949, 157: 205
 - ingestion of carbohydrate, 1941, 133: 686
 - large doses of insulin, 1939, 128: 127
 - lower extremities, 1948, 153: 188
 - muscular, CO₂, 1938, 124: 733
 - potassium liberation, 1939, 128: 141; 1939, 128: 649
 - d-tubocurarine, 1951, 164: 736
 - nerve lesions, 1949, 156: 185
 - phasic, vascular factors in, 1938, 123: 644
 - resistance, vascular tonus and cutaneous temperature, 1944, 141: 518
 - vascular volume, 1939, 127: 492
- PERIPHERAL MOTION ACUITY
- peripheral acuity, 1947, 148: 131
- PERIPHERAL RESISTANCE (VASCULAR)
- after injection of hypertonic solutions, 1950, 160: 19
 - after subcutaneous histamine, 1947, 148: 137
 - atrial pressure, 1948, 154: 268
 - blood flow and vascular tonus, cutaneous temperature, 1944, 141: 518
 - contractile force of heart muscle, 1950, 161: 500
 - factors affecting, 1944, 141: 530
 - in cardiac output, 1944, 140: 519
 - in hemorrhagic shock, 1944, 140: 680
 - measured by asystolic arterial pressure gradient, 1948, 155: 132
 - regulation of arterial blood pressure, 1946, 146: 414
 - renin, angiotonin, 1944, 141: 128
- PERISTALSIS
- motor and inhibitory phenomena in, 1947, 148: 352
 - of nerve fibers, 1945, 143: 537
 - reflex, in intestine, 1949, 157: 338
- PERITONEAL CAVITY
- absorption of cobalt, 1951, 164: 221
- PERITONEAL FLUID
- composition of, 1940, 129: 635
- PERITONEAL SAC
- pH of in vivo, 1946, 146: 4
- PERITONEUM
- absorption of blood by, 1948, 153: 277
 - diffusion of calcium, magnesium and phosphorus into, 1939, 126: 66
 - pressure in, nature of, 1946, 147: 242
- PERKINS, J. F., JR. Role of proprioceptors in shivering, 1945, 145: 264
- , LI, M.-C., HOFFMANN F. and HOFFMANN, ELENA J. Vasoconstriction after denervation, 1948, 155: 165
- , LI, M.-C., NICHOLAS, C. H., LASSEN, W. H. and GERTLER, P. E. Cooling and contraction of smooth muscles, 1950, 163: 14

- PERKINSON, J. D., JR.: *see* WHEELER, R. S.
- PERLMAN, I., MORTON, M. E. and CHAIKOFF, I. L.
Radioactive bromine uptake by thyroid gland,
1941, 134: 107
- *See* FRIEDLANDER, H. D.
- *See* LORENZ, F. W.
- PERLMUTT, J.: *see* SWINGLE, W. W.
- PERLO, V. P.: *see* BANUS, M. G.
- PERLOW, S., KILLIAN, S. T., KATZ, L. N. and ASHER, R.
Shock following venous occlusion of a leg; 1941,
134: 755
- *See* KATZ, L. N.
- PERMEABILITY FACTOR: *see* LEUKOTAXINE
- PERMUTIT Z
mineral metabolism, 1951, 164: 697
- PERNICIOUS ANEMIA: *see* ANEMIA, pernicious
- PEROGNATHUS BAILEY: *see* MOUSE, pocket
- PERRY, R.: *see* BORSON, H. J.
- PERRY, W. F.: *see* BOYD, E. M.
- PERSIKE, E. C. Testosterone propionate and involution
of the thymus, 1940, 130: 384
- and ADDIS, T. Urea formation and nephrectomy,
1949, 158: 149
- PERSKY, H.: *see* LEVINE, R.
- PERSKY, L., RAVIN, H. A., JACOB, S. W. and SELIGMAN,
A. M. Serum lipase and hemorrhagic pan-
creatitis, 1951, 166: 413
- PERSPIRATION
cutaneous insensible, 1942, 137: 492
- PERTZOFF, V. A. and BRITTON, S. W. Force and time
in acceleration, 1948, 152: 492
- *See* BRITTON, S. W.
- PERUVIAN INDIANS
oxygen-hemoglobin dissociation curves in, 1944, 142:
739
- PESKIN, G. W.: *see* AVIADO, D. M., JR.
- PESSOTI, RITA L.: *see* BRAUER, R. W.
- PESTRECOV, K.: *see* KARPOVICH, P. V.
- PETERFALVI, M.: *see* PLOTKA, C.
- PETERS, H. C. Absorption of chloride from lower ileum,
1941, 134: 37
- Bile salts and intestinal absorption of chloride,
1942, 136: 340
- PETERS, J. P., TULIN, M., DANOWSKI, T. S. and HALD,
PAULINE M. CO₂ and chloride in oxygenated
human blood, 1947, 148: 568
- *See* DANOWSKI, T. S.
- *See* HALD, PAULINE M.
- *See* TULIN, M.
- PETERS, M. V.: *see* MACFARLAND, M. L.
- PETERSEN, W. F.: *see* BERG, M.
- PETERSON, CLARE, G. and YOUNG, W. B. Intestino-
intestinal inhibitory reflex, 1945, 143: 407
- PETERSON, DELORES K.: *see* WARREN, MADELEINE F.
- PETERSON, V. E.: *see* GRAHAM, W. R., JR.
- PEYSER, E., SASS-KORTSÁK, A. and VERZÁR, F. Regu-
lation of lung volume, 1950, 163: 111—
- PEYSER, P.: *see* ROBERTSON, W. V. B.
- PFEIFFER, C., DREISBACH, R., GLASS, H. G. and ROBY,
C. C. Excitement and serum calcium and
potassium, 1940, 129: 756
- , ROBY, C. C. and SMITH, R. B. K. Ca, Mg diuresis,
1941, 134: 729
- *See* COON, J. M.
- *See* ROBY, C. C.
- PFEIFFER, C. A. and HOOKER, C. W. Hormonal factors
in survival after adrenalectomy, 1940, 131:
441
- PHALEN, J. S.: *see* KOTTKE, F. J.
- PHARYNGEAL REFLEX
vagusotomy, 1947, 149: 442
- PHELPS, DORIS: *see* DIAZ, J. T.
- PHENACETYLUREA
inhibition of brain cholinesterase, 1950, 160: 193
- PHENOBARBITAL
acetylcholine metabolism, 1947, 151: 346
antidiuretic action of, 1947, 148: 261
carbohydrate metabolism, 1938, 122: 759
ectopic ventricular tachycardia, 1950, 163: 505
inhibition of brain cholinesterase, 1950, 160: 193
oxygen consumption of brain slices, 1951, 166: 219
calcium and magnesium content of media, 1951,
166: 219
- PHENOL
adrenaline oxidation by tyrosinase, 1942, 136: 67
clotting time, 1945, 144: 450
maternal behavior, 1942, 137: 299
muscle sensitivity to acetylcholine and potassium,
1946, 145: 610
- PHENOL RED
renal electrolyte metabolism, 1951, 167: 208
transport in isolated tubules, 1950, 161: 167
- PHENOLSULPHONPHTHALEIN
excretion, intra-abdominal pressure, 1951, 167: 244
- PHENOLSULPHONPHTHALEIN TEST
temperature, altitude, 1943, 140: 377
- n - PHENOXYISOPROPYL - n - BENZYL - BETA - CHLOR-
ETHYL-AMINE
blocking action on vitamin P, 1951, 165: 298
- 1 - PHENYL - 2N - METHYL - BENZYLAMINOETHANOL -
HCl
inhibition of hyperglycemia with, 1951, 165: 68
- 1 - PHENYL - 2N - METHYLBENZYL - AMINOETHYL -
CHLORIDE HCl
inhibition of hyperglycemia with, 1951, 165: 68
- PHENYLALANINE
renal hypertension, 1950, 162: 370
- PHENYLENEDIAMINES
o-, clotting time, 1945, 144: 453
p-, adrenaline oxidation by tyrosinase, 1942, 136: 67
brain metabolism, 1942, 137: 327
clotting time, 1945, 144: 453
oxidation of by spermatozoa, 1943, 138: 515
- PHENYLTHIOUREA: *see* THIOUREA, phenyl-
- PHILIPS, F. S., GILMAN, A., KOELLE, E. S., Mc-
NAMARA, B. P. and ALLEN, ROBERTA P. Water
and electrolyte balance, 1948, 155: 295
- *See* GILMAN, A.
- PHILLIPS, D. M.
— *See* HARE, K.
— *See* HARE, RUTH S.

- PHILLIPS, N. E., SAXON, P. A. and QUIMBY, F. H.
Metabolism at low pressure, 1950, 161: 307
— See QUIMBY, F. H.
— See REYNOLDS, O. E.
- PHILLIPS, P. H.
— See EVANS, R. J.
— See GRUNERT, R. R.
— See LARDY, H. A.
— See MEYER, J. H.
- PHILLIPS, R. A. and BARKER, S. B. Insulin convulsions and stellate ganglia, 1938, 124: 202
— and HAMILTON, P. B. Renal ischemia in dogs, 1948, 152: 523
—, DOLE, V. P., HAMILTON, P. B., EMERSON, K., JR., ARCHIBALD, R. M. and VAN SLYKE, D. D. Shock and renal function, 1946, 145: 314
— See DOLE, V. P.
— See FARR, L. E.
— See HAMILTON, P. B.
- PHILLIPS, W. A. and YOUNG, L. E. Inhibition of estrous cycles by progesterone, 1938, 122: 175
— See YOUNG, L. E.
- PHILPOT, V. B., JR. Erythrocytes and snake venom, 1949, 158: 77
- PHLORHIZIN
gastro-intestinal absorption, 1938, 123: 583
glucogenesis in kidney, 1947, 151: 198
glycuresis, mechanism of, 1941, 134: 94
hormones, 1939, 128: 115
PAH accumulation in kidney slices, 1950, 161: 189
phosphorus reabsorption in kidney, 1944, 142: 659
potassium secretion, 1950, 161: 153
respiration of fish kidney, 1950, 161: 170
tubular secretion of phenol red, 1950, 161: 263
- PHLORHIZIN DIABETES: see DIABETES, PHLORHIZIN
- PHLOROLUCINOL
clotting time, 1945, 144: 450
- PHORMIA
rejection thresholds of, 1951, 165: 248
- PHOSPHATASES
androgens and liver and kidney content of, 1948, 153: 210
ascorbic acid and, of male genital tract, 1941, 133: 82
castration, steroids, 1948, 155: 251
estrogen, testosterone, 1948, 155: 265
hormones, 1948, 155: 265
in experimental scurvy, 1942, 135: 487
level in consecutive semen ejaculates, 1948, 153: 235
non-excretion of, in bile, 1948, 153: 444
of blood, of scorbutic guinea pigs, 1940, 130: 310
thyroid and parathyroid, 1942, 135: 421
of kidney, adrenal hormones and testosterone, 1947, 150: 584
androgens, 1945, 145: 120
of plasma, factors affecting, 1948, 152: 280
of serum, carrot-oat diet, 1939, 125: 742
cholesterol, 1946, 145: 654
choline, cystine, 1943, 139: 642
hepatectomy, 1951, 164: 792
high-fat protein-deficient diet, 1946, 145: 654
inhibition by bile salts, 1942, 135: 490
liver function, 1949, 159: 351
low protein diet, 1942, 138: 184
protein, 1946, 145: 654
of tissues, high protein and high carbohydrate diets, 1948, 154: 489
renal, parathyroid extract, 1951, 165: 145
testosterone, growth hormone, 1948, 155: 262
urinary and genital, 1949, 156: 396
- PHOSPHATASES, ACID
adrenals, 1947, 150: 584
androgens, 1945, 145: 120
estrogens, 1947, 151: 126
in semen of bull, 1948, 153: 235
- PHOSPHATASES, ALKALINE
estrogens, 1947, 151: 126
hepatectomy, 1947, 149: 419
histochemical study of, 1948, 152: 257
hormonal control of, in pancreatic secretion, 1948, 154: 358
intestinal secretion of, 1943, 138: 237
of kidney, androgens, 1945, 145: 120
of liver and kidney, adrenal cortex, 1947, 150: 582
of plasma, 1950, 163: 650
of proximal convoluted tubules, 1941, 134: 94
of semen of bull, 1948, 153: 235
origin of, 1949, 156: 256
various conditions, 1947, 149: 419
x-ray irradiation, 1950, 163: 648
- PHOSPHATE, INORGANIC
changes in muscle in traumatic shock, 1944, 142: 292
in muscle atrophy, 1950, 161: 410
lead poisoning, 1939, 126: 264
nature of action of insulin on, 1949, 159: 107
of blood, callicrein, 1944, 142: 531
in diabetic acidosis, 1947, 149: 669
movement in, 1947, 149: 679
of brain, carbon dioxide, 1949, 158: 481
of developing muscle, 1951, 165: 713
of genital tract, 1940, 130: 290
of muscle, 1940, 129: 229
following ischemia, 1945, 144: 437
under various conditions, 1939, 126: 391
of muscle column, work and recovery of, 1941, 132: 341
of muscle tissue of embryo, 1951, 165: 711
of normal and failing heart, 1947, 150: 738
of plasma following tourniquet shock, 1946, 147: 68
in shock, 1945, 145: 97
muscle turnover, 1945, 143: 159
starvation, dehydration, 1947, 148: 603
tissue exchange rate, 1951, 164: 159
turnover in brain, 1951, 165: 251
of serum, insulin, 1949, 159: 107
phospholipid ingestion, 1939, 126: 113
thyroid, 1948, 152: 104
of tissues after hemorrhage, 1946, 147: 446
of urine, glucose, fructose, 1938, 124: 79
parathyroids and clearance of, 1942, 136: 716
radioactive, insulin effect on tissue phosphates, 1944, 140: 598

PHOSPHATE, INORGANIC

shock, 1946, 146: 267

tissue concentrations of, 1947, 149: 372

stimulation, 1950, 160: 206

transfer, in oxidative muscular contraction, 1943, 140: 318

to muscle from plasma, following ischemia, 1945, 144: 443

transport and turnover in brain, 1951, 165: 251

turnover in brain and muscle, 1951, 165: 255

PHOSPHATES

acidification of the urine, 1945, 144: 240

anaerobic glycolysis in liver slices, 1946, 147: 509

competition with glucose for renal reabsorption, 1944, 142: 659

excretion of, 1949, 158: 214; 1951, 165: 434

bicarbonate, 1946, 147: 150

by isolated frog kidney, 1951, 164: 662

ideal osmotic work of, 1949, 157: 359

urinary pH, 1941, 132: 275

glycolysis in blood, 1948, 152: 216

K, excretion of, 1942, 138: 97

metabolism of spermatozoa, 1943, 138: 744

nerve-free smooth muscle of chick amnion, 1940, 131: 528

parathyroid and renal reabsorption of, 1948, 155: 42

permeability of placenta to, 1946, 147: 360

reabsorption and glomerular filtration, 1947, 151: 168

renal tubular reabsorption of, 1941, 134: 783; 1951, 164: 670

total concentration of plasma and urinary acidity, 1946, 147: 482

utilization of glucose by diabetic, 1950, 162: 416

PHOSPHATES (AS TISSUE CONSTITUENTS)

of blood, after hemorrhage and muscle trauma, 1947, 149: 423

evisceration, 1950, 160: 250

in shock, 1947, 149: 54

insulin, 1944, 140: 600

mobilized by vitamin D, 1951, 166: 391

parathyroid extract, 1951, 165: 142

turnover in, 1942, 138: 176

of blood and urine, phospholipid, 1939, 126: 113

of blood, muscle and liver, 1939, 127: 387

of blood, serum and urine, hypertonic injections, 1949, 159: 162

of heart and skeletal muscle, 1943, 139: 670

of liver in hemorrhagic shock, 1945, 145: 33

of muscle, 1940, 129: 267

acidosis, 1951, 167: 669

stimulation, 1938, 121: 601

of plasma, gravity shock, 1944, 141: 166

hyperventilation, 1948, 154: 185

levels with tourniquet shock, 1945, 144: 498

whole-body x-irradiation, 1951, 164: 454

of plasma and urine, 1949, 157: 359

of serum, exercise, 1938, 122: 106; 1940, 128: 421

on special diets, 1939, 125: 742

serum calcium, 1938, 124: 234

tourniquet shock, 1946, 146: 258

traumatic shock, 1943, 139: 299

of serum and urine, parathyroid extract, 1951, 165: 142

of tissues at low atmospheric pressures, 1944, 142: 63

of urine, acid-base regulation, 1946, 147: 482

phospholipid ingestion, 1939, 126: 113

organic, of blood in diabetic acidosis, 1947, 149: 669

of muscle, following ischemia, 1945, 144: 437

of urine, glucose, fructose, 1938, 124: 79

residual, shock and tissue concentrations of, 1947, 149: 372

total acid-soluble, of nerve, cord and brain, 1951, 164: 5

of normal and failing heart, 1947, 150: 738

release of brain upon stimulation, 1946, 145: 544

PHOSPHENES

phenomenon of electrically produced, 1938, 122: 58

production by magnetic field, 1947, 148: 372

PHOSPHOCREATINE

acetylcholine sensitivity of muscle, 1946, 145: 420

age and content in muscle, 1945, 145: 79

anoxia and in brain, 1949, 156: 154

changes in muscle in traumatic shock, 1944, 142: 292

in anaerobic tetanus of muscle, 1939, 125: 763

in cardiac hypertrophy, 1943, 138: 652

in muscle atrophy, 1950, 161: 410

in normal and failing heart, 1947, 150: 738

insulin and muscle turnover of, 1945, 143: 157

lead poisoning, 1939, 126: 264

magnesium, 1950, 161: 388

muscle metabolism of, 1942, 137: 753

muscular contraction, 1938, 122: 217

of brain, anoxia and injury, 1941, 132: 770

of developing muscle, 1951, 165: 713

of heart, various drugs, 1947, 150: 739

of muscle, 1940, 129: 229; 1943, 140: 318

after gelatin ingestion, 1943, 138: 254

under various conditions, 1939, 126: 391

work, recovery, 1941, 132: 341

repayment of oxygen debt, 1939, 127: 287

shock, 1946, 146: 267

tissue concentrations of, 1947, 149: 372

stimulation, 1950, 160: 206

turnover, in brain and muscle, 1951, 165: 255

in muscle, 1944, 142: 623; 1945, 143: 159

PHOSPHOGLYCERIC ACID

of tissues in hemorrhagic shock, 1946, 147: 446

shock, 1946, 146: 267

PHOSPHOLIPIDS

as energy source for spermatozoa, 1941, 133: 605; 1941, 134: 542

in radiation syndrome, 1951, 165: 35

labeled, phosphorus content in normal and denervated muscle, 1941, 132: 27

of blood, adrenals, 1951, 164: 31

of muscle, stimulation, 1938, 121: 603

of plasma, formation in chicken, 1951, 165: 596

of serum, ingestion of, 1939, 126: 113

placental transfer of, 1942, 135: 672

respiratory quotient, 1939, 126: 111

turnover, thyroxin, 1948, 155: 402

PHOSPHOPYRUVIC ACID

of tissues in hemorrhagic shock, 1946, 147: 446

See page iii for guide to use of index

PHOSPHORIC ACID

muscle contraction, 1945, 145: 7

PHOSPHORUS

bone growth, 1946, 146: 591; 1946, 146: 596
 changes in submaxillary glands, 1941, 135: 167
 diffusion of, in the peritoneum, 1939, 126: 68
 distribution after intestinal absorption, 1942, 138: 149
 exchange between blood and muscle, 1941, 134: 40
 by tooth enamel and dentin, 1942, 135: 480
 excretion, nitrogen mustard, 1948, 155: 299
 growth, thyroxine, 1942, 138: 175
 intake at army training centers, 1945, 144: 590
 metabolism of, in muscle, 1942, 137: 753
 metals, 1938, 124: 230
 sterols, 1942, 135: 577
 thyroid and parathyroid, 1942, 135: 421
 nucleic acid, in nerve, cord and brain, 1951, 164: 5
 phospholipid, of nerve, cord and brain, 1951, 164: 5
 phosphoprotein, of nerve, cord and brain, 1951, 164: 5
 renal reabsorption of, 1944, 142: 648
 retention, single massive dose of vitamin D, 1947, 149: 336
 schema of equilibrium between plasma and cell, 1942, 137: 757

PHOSPHORUS (RADIOACTIVE)

absorption, in dog, 1942, 138: 149
 anaerobic muscle contraction, 1940, 129: 229
 circulatory transfer to muscle, 1950, 163: 575
 demonstration of bilateral portal circulation with, 1945, 143: 106
 deposition in egg, 1943, 138: 318
 determination of circulating erythrocyte volume with, 1942, 137: 539; 1948, 155: 226
 distribution, exchange and migration in central nervous system, 1951, 164: 1
 distribution in muscle, 1943, 140: 318
 exchange rate from urine, 1951, 164: 159
 fetal circulation, 1950, 162: 147
 for labeling of erythrocytes, 1947, 148: 653
 glomerular permeability studies with, 1951, 164: 646
 in muscle metabolism, 1944, 142: 147
 in tooth enamel, 1941, 133: 112
 incorporation into liver nuclei, 1945, 143: 236
 inhibition of uptake by erythrocytes, 1951, 164: 213
 ionic exchange in bone and muscle, 1945, 143: 683
 liver and removal from blood, 1951, 165: 590
 measurement of circulating erythrocytes, comparison with T-1824 method, 1948, 155: 232
 placental permeability, 1946, 147: 368
 metabolism studies with, 1942, 138: 175
 mitosis, 1945, 143: 231
 muscle metabolism, 1942, 137: 750
 muscle response to ischemic shock, 1945, 144: 437
 permeability of blood-cerebrospinal barrier, 1943, 140: 54
 of tissues, 1941, 132: 215
 phosphate exchange by enamel and dentin, 1942, 135: 480
 placental permeability to, 1942, 135: 670
 transport and turnover in brain, 1951, 165: 255
 turnover in muscle, 1944, 142: 623; 1945, 143: 159

uptake of normal and denervated muscle, 1941, 132: 26

PHOSPHORYLASE

activity in muscle and neurotomy, 1951, 167: 656

PHOSPHORYLCHOLINE

denervated bone and muscle, 1945, 143: 683

PHRENIC NERVES

crossed phenomenon in, 1941, 134: 102; 1951, 166: 241
 epinephrine-like substance in, 1947, 148: 461
 observations after interruption, 1946, 147: 90; 1946, 147: 561; 1947, 151: 547; 1948, 155: 1

PHTHALIC ACID

blood coagulation, 1940, 130: 576

PHTHALYLSULFATHIAZOLE

intestinal synthesis of vitamins, 1947, 148: 95

PHYFE, P.: *see* RAGAN, C.PHYKENTRONE: *see* GROWTH HORMONEPHYNONE: *see* ANTERIOR PITUITARY HORMONES

PHYSICAL FITNESS

breath holding as test, 1947, 149: 720
 and oxyhemoglobin reduction time test, 1946, 147: 636
 electrical skin resistance, 1946, 147: 1
 fat of diet, 1947, 149: 201
 lactate response to exercise, 1944, 141: 635
 on restricted and supplemented diets, 1947, 148: 623
 palmar skin resistant, as measure of, 1944, 142: 71
 recovery after moderate exercise, 1947, 149: 607
 restricted B vitamins, 1945, 144: 10
 tests of, period of training, 1946, 146: 422

PHYSIOLOGICAL SALINE: *see* SALINE (ISOTONIC)

PHYSIOLOGICAL STATE

brain acetylcholine, 1949, 159: 247

PHYSOSTIGMINE

acetylcholine pressor effect, 1940, 130: 347
 acetylcholine sensitivity of muscle, 1946, 145: 420
 acetylcholine vasopressor effect, 1940, 130: 347
 action potentials, myograms of gastrocnemius, 1947, 150: 456
 activity of adenosine-triphosphatase, 1948, 152: 90
 anoxia and action of, 1951, 164: 567
 blood flow in bronchial artery, 1947, 148: 662
 brain dehydrogenases, 1949, 157: 466
 central neurohumoral intermediation, 1943, 139: 371
 ciliary ganglion, 1950, 160: 474
 contraction of denervated facial muscles, 1938, 121: 614
 increase in intestinal motility due to, 1951, 165: 679
 inhibition of brain oxidation by, 1949, 157: 301
 liver blood flows, 1941, 132: 723
 muscarine vasopressor effect, 1940, 130: 353
 muscle, 1948, 153: 355
 muscle sensitivity to acetylcholine and potassium, 1946, 146: 569
 neuromuscular transmission, 1940, 130: 205; 1940, 130: 226; 1943, 140: 272
 permeability of erythrocytes, 1950, 162: 610; 1951, 164: 424
 potentiation of pressor effects of acetylcholine by, 1940, 130: 347
 renal electrolyte metabolism, 1951, 167: 209

PHYSOSTIGMINE

- skeletal muscle, 1940, 131: 228
- summation of stimuli, 1950, 160: 375

PICHOTKA, J. and REICHEL, H. Blood-clotting time in rabbits, 1950, 162: 632

PICKERING, B. I.: *see* ROSENTHAL, R. L.

PICKERING, R. W. and DOW, P. A-V distribution of dye, 1950, 161: 221

— *See* DOW, P.

— *See* REMINGTON, J. W.

PICKETT, A. D. and VAN LIERE, E. J. Anoxia and gastric secretion, 1939, 127: 637

PICRIC ACID

- clotting time, 1945, 144: 450

PICROTOXIN

- acetylcholine of brain, 1950, 162: 472
- acetylcholine metabolism, 1947, 151: 346
- brain metabolism, 1945, 143: 38
- inhibition of brain cholinesterase, 1950, 160: 193
- magnesium deficiency and convulsions due to, 1938, 121: 421
- release of cerebral phosphate following stimulation with, 1946, 145: 546
- renal hypertension, 1944, 141: 709
- respiration at high altitude, 1949, 156: 55

PIERCE, H. B., HAEGER, LORRAINE F. and FENTON, P. F. Gastric evacuation after intragastric glucose, 1942, 135: 526

— *See* BIRCHALL, E. F.

— *See* FENTON, P. F.

PIERCE, J. F.: *see* RUSSELL, R. W.

PIG

- abnormal bleeding time in, 1942, 136: 361
- as source of substance which lowers blood pressure, 1944, 140: 633
- biliary fistulae study in, 1946, 146: 293
- bleeding disease in, 1943, 139: 117
- capillary resistance in with bleeding disease, 1942, 138: 136
- defect in blood coagulation, 1942, 136: 357
- distribution of enterocrinin in, 1938, 121: 483
- enterohepatic circulation of foreign bile acids, 1946, 146: 293
- experimental achlorhydria in, 1950, 161: 413
- fetal, cerebrospinal fluid in, 1938, 124: 131
- folic acid of blood, 1947, 148: 320
- kidney, as source of renin, 1942, 136: 733
- lens capsule permeability and parathyroid hormone, 1939, 126: 136
- newborn, heart rate in, 1943, 139: 51
- nutritive requirements of young, 1939, 126: 375
- progesterin of corpus luteum in, 1938, 123: 471
- reactivity of pulmonary blood vessels, 1951, 167: 734
- recovery of adrenaline-like substance from kidney of, 1938, 123: 364
- riboflavin deficiency in, 1941, 133: 47
- sustained pressor principle from, 1948, 153: 344
- vitamin B of whole blood, 1950, 163: 79

PIGEON

- adrenalectomized, heat production in, 1944, 141: 153

See page iii for guide to use of index

erythrocytes, heredity, growth and metabolism in, 1938, 122: 480

fasting, extreme cold, 1950, 161: 300

fasting metabolism in, 1944, 141: 305

liver glycogen and glycogenolysis in, 1940, 131: 522

proliferation of crop-sac epithelium in, 1938, 123: 614

racial factors in bioassay with, 1939, 125: 727

response of crop-sac to prolactin, 1939, 127: 422

thyroidectomy, thiouracil and bone metabolism, 1950, 162: 603

PIGOTT, MADELEINE G.: *see* HOLMES, A. D.

PIJOAN, M. and GIBSON, J. G., 2nd Disappearance of dextrose given intravenously, 1938, 121: 534

— *See* GIBSON, J. G., 2nd

PILHORN, H. R.: *see* BISCHOFF, F.

PILLION, E. L.: *see* FERRIS, B. G., JR.

PILOCARPINE

anoxia and action of, 1951, 164: 567

ascorbic acid and phosphatase of semen, 1941, 133: 84

augmentation of thyrotropic hormone activity by, 1940, 129: 727

basal metabolic rate, 1940, 129: 728

ciliary ganglion, 1950, 160: 467

conditioning with, 1938, 124: 679

electrical potential of gastric mucosa, 1947, 149: 77

electrolytes in submaxillary glands, 1941, 135: 167

933F, 1938, 123: 406

gastric secretion, 1943, 138: 341; 1943, 140: 138

potential, 1947, 149: 163

heart, 1942, 136: 188

lachrymal secretion, 1938, 123: 359

liver blood flow, 1941, 132: 713

lymph flow, 1938, 122: 284

pepsin response to compared with histamine, 1941, 132: 698

pepsin secretion, 1944, 141: 285

resistance to G forces, 1946, 146: 41

submaxillary secretion, 1938, 124: 75; 1939, 125: 677; 1941, 134: 447

water balance, 1948, 155: 309

PINACOL

absorption in alimentary tract, 1942, 135: 330

intestinal absorption of insulin, 1941, 132: 281

PINCUS, G. and WERTHESEN, N. T. Maintenance of embryo life in ovariectomized rabbits, 1938, 124: 484

— *See* GRAUBARD, M.

— *See* SMITH, G. VAN S.

PINCUS, I. J.: *see* FRIEDMAN, M. H. F.

PINE, MARY B.: *see* LILIENTHAL, J. L., JR.

PIÑERA, B.: *see* WIGGERS, C. J.

PINKSTON, J. O. and RIOCH, D. McK. Cerebral cortex and peripheral circulation, 1938, 121: 49

PINNA

water loss from, 1941, 132: 748

PINSON, E. A. Cutaneous insensible perspiration, 1942, 137: 492

— and ADOLPH, E. F. Recovery from undercooling, 1942, 136: 105

PINTO, R. M. Interrelations of adrenal and sex glands, 1945, 144: 652

PIPERIDO-METHYL-3-BENZODIOXANE: *see* 933F

- PITESKY, ISADORE and LAST, J. H. Heat stress and renal function, 1951, 164: 497
- , LAST, J. H. and BOND, E. E. Use of venous blood for TmG, 1951, 165: 407
- PITOCIN
- comparison with pitressin, 1938, 124: 765
 - glucose tolerance, 1949, 157: 59
 - retention of water, salt, 1939, 125: 421
 - water balance in frog, 1951, 164: 460
 - weight gain in frogs, 1950, 163: 366
- PITRESSIN
- adrenalectomized animal, 1942, 137: 374
 - antagonism to acetylcholine and histamine, 1938, 124: 142
 - antidiuretic activity of, 1950, 163: 141; 1951, 164: 51
 - aortic, portal and inferior vena caval pressure, 1946, 146: 199
 - blood amino acids, 1940, 128: 777
 - blood pressure after, 1951, 166: 297
 - chloride excretion, 1943, 140: 340; 1949, 159: 134
 - water, 1947, 151: 174
 - colon, 1938, 123: 400
 - comparison with pitocin, 1938, 124: 764
 - denervated blood vessels, 1943, 139: 426
 - drinking induced by hypertonic solution, 1950, 162: 329
 - dual nature of, 1950, 163: 141
 - glucose tolerance, 1949, 157: 59
 - renal blood flow, and clearance, 1939, 126: 360
 - resistance to acceleration, 1945, 143: 267; 1946, 146: 42
 - to water intoxication, 1945, 144: 574
 - retention of water, salt, 1939, 125: 421
 - role of sodium and chloride in thirst, 1950, 162: 345
 - serum electrolytes, water exchange, 1939, 127: 64
 - survival time of decapitated head, 1945, 144: 659
 - survival to anoxia, 1945, 143: 550
 - urinary output, 1941, 131: 603
 - use in blood volume determination, 1941, 134: 808
 - vagal control of cardiac activity, 1943, 139: 677
 - vascular tone, 1941, 135: 51
 - water balance, 1948, 155: 309
 - water intake, 1939, 125: 89
 - weight gain in frogs, 1950, 163: 366
- PITT, ALICE A.: *see* BEYER, K. H.
- PITTMAN, MARTHA S., CEDERQUIST, DENA, KUNERTH, BERNICE L., SHINKLE, VIRGINIA, OHLSON, MARGARET A., YOUNG, CHARLOTTE M., DONELSON, EVA G., WALL, LUCILE M., MCKAY, HUGINA, PATTON, MARY B., and KINSMAN, GLADYS M. Basal metabolism of women, 1943, 140: 33
- *See* YOUNG, CHARLOTTE M.
- PITTS, G. C. Diurnal rhythm in blood sugar of rat, 1943, 139: 109
- and PACE, N. Blood COHb concentration and hypoxia, 1947, 148: 139
- , JOHNSON, R. E. and CONSOLAZIO, F. C. Factors affecting work output in hot environment, 1944, 142: 253
- *See* CONSOLAZIO, W. V.
- *See* JOHNSON, R. E.
- *See* PACE, N.
- PITTS, R. F. Differentiation of respiratory centers, 1941, 134: 192
- Reabsorption of amino acids, 1944, 140: 535
- Reabsorption of glycine and creatine, 1943, 140: 156
- Renal hemodynamics in the dog, 1944, 142: 355
- and ALEXANDER, R. S. Acidification of urine, 1945, 144: 239
- and ALEXANDER, R. S. Renal reabsorption of inorganic phosphate, 1944, 142: 648
- and BRONK, D. W. Excitability of hypothalamus-sympathetic system, 1942, 135: 504
- and LOTSPEICH, W. D. Excretion of titratable acid, 1946, 147: 481
- and LOTSPEICH, W. D. Regulation of acid base balance, 1946, 147: 138
- , LARRABEE, M. G. and BRONK, D. W. Hypothalamic cardiovascular control, 1941, 134: 359
- , MAGOUN, H. W. and RANSON, S. W. Interrelation of respiratory centers in cat, 1939, 126: 689
- , MAGOUN, H. W. and RANSON, S. W. Localization of medullary centers in cat, 1939, 126: 673
- , MAGOUN, H. W. and RANSON, S. W. Origin of respiratory rhythmicity, 1939, 127: 654
- *See* AYER, J. L.
- *See* JAHAN, I.
- *See* KUPFER, S.
- *See* LOTSPEICH, W. D.
- *See* ROEMMELT, J. C.
- *See* THOMPSON, D. D.
- PITUITARY GLAND
- adrenal relations in carbohydrate metabolism, 1939, 126: 148
 - adrenal weight, 1941, 132: 372
 - adrenocorticotrophic hormone, hypoglycemia, 1941, 134: 8
 - ascorbic acid and glutathione content of, 1940, 128: 655
 - B-complex deficiency, 1950, 161: 517
 - calorigenic action of amino acids, 1938, 122: 533
 - of vitamin D, 1939, 127: 552
 - carbohydrate metabolism, 1939, 127: 463; 1941, 132: 447; 1943, 140: 98
 - diet and gonadotropic content of, 1940, 128: 497
 - dysfunction in alloxan diabetes, 1947, 150: 87
 - eosinophil cells in and insulin sensitivity, 1944, 141: 568
 - estradiol and production of gonadotropins, 1941, 134: 143
 - estrogen-progesterone relationship, 1951, 164: 26
 - experimental water diuresis, 1940, 128: 509
 - gonadal effects of secretions of, 1939, 128: 169
 - gonadotropic antagonist from, 1940, 128: 532
 - gonadotropic content, 1939, 125: 396
 - in puberty, 1939, 127: 629
 - gonadotropic function of, 1939, 128: 57
 - grafts, ACTH activity of, 1949, 159: 426
 - histamine shock, 1941, 133: 623
 - hormonal nature of oxytocic principle, 1938, 124: 314
 - hyperglycemia, carotid sinus ligation, 1944, 142: 645

PITUITARY GLAND

- hyperglycemic principle of urine, 1939, 125: 566
- hypothalamus, water balance, 1941, 133: 582
- iodine fixation of thyroid, 1941, 134: 551
- isolated pars anterior, retention of sex functions, 1948, 152: 591
- mechanism of coitus—excitation of, 1938, 121: 157
- neuromuscular function, 1949, 156: 274
- pharmacological block of neurogenic activation, 1951, 166: 223
- progesterone and gonadotropic activity of, 1939, 127: 192
- regulation of ACTH and TSH, 1951, 167: 569
- renal function, 1939, 125: 645
- renal hypertension, 1951, 166: 528
- resistance to cold, 1942, 136: 25
- serum albumin metabolism, 1943, 138: 258
- thyroidectomy and histology, 1938, 121: 224
- uptake of radioactive bromine by, 1941, 134: 109
- vascular supply of, 1940, 131: 247
- vitamin E deficiency, 1941, 132: 259
- water content of diet, exercise, 1940, 128: 539

PITUITARY GLAND WEIGHT

- androgens, 1948, 154: 461
- diethylstilbestrol, 1942, 136: 137
- hypertension, adrenalectomy, 1939, 125: 589
- stilbestrol, 1946, 145: 412
- thyroidectomy, 1946, 145: 412

PITUITARY SECRETAGOGUE

- from plant juices, 1944, 142: 487

PITUITARY STALK

- extirpation of, 1947, 150: 222
- section, ACTH, 1949, 158: 45
- gonadotropic function of the hypophysis, 1939, 128: 57
- reproductive cycle, 1939, 126: 762
- water diuresis, 1940, 128: 509

PITUITARY, REMOVAL OF: *see* HYPOPHYSECTOMY

PITUITRIN

- brain blood flow, 1943, 138: 428
- congestive heart failure following, 1948, 155: 341
- denervated muscles, 1949, 158: 142
- gastric motility, 1947, 148: 340
- in renal hypertension, 1940, 130: 570
- inhibition of water loss in albino rats, 1940, 130: 403
- injection and sleep, 1939, 125: 499
- lymph flow, 1938, 122: 284
- permeability of frog skin, 1951, 164: 44
- resistance to G forces, 1946, 146: 42
- retention of water and salt, 1939, 125: 421
- seasonal response of frog to, 1939, 127: 328
- secretion, plasma osmotic pressure, 1945, 144: 311
- urinary excretion of, following hypertonic saline infusion, 1945, 144: 316
- urine secretion in chicken, 1940, 128: 595
- water balance, 1948, 155: 312
- in frog, 1938, 124: 761; 1940, 129: 647; 1951, 164: 457
- water diuresis, 1939, 127: 521

PITUITROL: *see* PITUITRINPIZZOLATO, P.: *see* BEARD, H. H.

See page iii for guide to use of index

PLACENTA

- acetylcholine-equivalent in, 1939, 127: 343
- permeability, fetal size, 1939, 128: 156
- to inorganic phosphate, 1946, 147: 360
- to iron, 1942, 137: 164; 1950, 161: 202
- to phospholipid, 1942, 135: 670
- to sodium, 1941, 132: 594; 1941, 134: 338; 1941, 134: 344
- to water, 1942, 136: 750
- toxin formation in, 1946, 146: 142

PLACENTOMATA

- estrogen, progesterone, 1939, 128: 218

PLAGGE, J. C. Importance of salivary glands to newborn rats, 1938, 124: 612

PLAISTER, T. H.: *see* WILSON, W. O.

PLANIMETER

- use for measurement of area of islets of Langerhans, 1948, 152: 37

PLANTAR NERVES

- stimulation of, 1938, 124: 118

PLANTAR REFLEXES

- in terms of afferent fibers, 1938, 124: 117

PLASMA

- antifibrinolysin activity of, 1947, 150: 665
- antithromboplastic activity in, 1943, 139: 265
- binding of PAH, 1951, 167: 248
- clotted, heparin and optical density, 1948, 152: 577
- coagulation, contacting surface, 1945, 143: 67
- in hemophilia, 1950, 163: 148
- efficacy in treatment of hemorrhagic shock, 1946, 147: 160
- ethanol precipitation of, 1950, 161: 212
- exchange of albumin between lymph, 1951, 165: 15
- factor in increasing circulating leukocytes, 1950, 161: 14
- factors A and B affecting prothrombin time, 1947, 150: 411
- heparinized, as infusion fluid following hemorrhage, 1947, 150: 641
- hypertonic, body fluids, 1942, 136: 194
- injection of, dye, cell content of arterial blood, 1947, 151: 303
- venopressor mechanism, 1944, 141: 104
- level of injected material, renal clearance, 1947, 150: 340
- movement of inulin from to interstitial fluid, 1950, 160: 532
- nature of action of labile factor in, 1950, 160: 572
- osmotic relation to aqueous humor, 1940, 130: 340
- prothrombin conversion accelerator, 1949, 159: 322
- prothrombin utilization, 1949, 159: 316
- radiation syndrome, 1950, 162: 703
- relative velocity of in circulation, 1949, 157: 153
- replacement, T-1824, 1951, 165: 205
- specific gravity, gravity shock, 1944, 141: 166
- in water deprivation, 1947, 150: 729
- therapeutic effect in traumatic shock, 1943, 140: 200
- in wound shock, 1944, 141: 713
- of hemorrhagic shock, 1945, 144: 223

PLASMA CONSTITUENTS: *see under name of constituent*

PLASMA SUBSTITUTES

- gelatin and saline as, 1944, 141: 329

PLASMA VOLUME

- adrenalectomy, 1950, 160: 92
- therapy, 1941, 134: 504
- adrenaline, sympathectomy, 1939, 125: 713
- bed rest, 1945, 144: 228
- climate, 1940, 130: 742
- concentrated serum, 1938, 124: 791
- correlation with extracellular fluid volume in famine edema, 1947, 150: 176
- dehydration, 1948, 152: 72
- ether anesthesia, 1938, 124: 391; 1941, 132: 796
- famine edema, 1947, 150: 173
- gelatin, 1943, 139: 439
- growth, 1944, 141: 703
- hemorrhage, 1945, 144: 201; 1945, 144: 210
- splenectomy, sympathectomy, 1947, 148: 425
- hyperthermia, hypothermia, 1951, 167: 485
- hypertonic plasma, 1944, 140: 595
- hypoproteinemia, 1950, 162: 153; 1950, 162: 162
- in various clinical states, 1947, 148: 534
- injection of 5 per cent glucose, 1944, 140: 592
- of hypertonic glucose 1944, 140: 592
- normal plasma, 1944, 140: 594; 1947, 151: 303
- normal saline, 1944, 140: 591
- prolonged injection of adrenaline, 1941, 131: 547
- red cell volume, 1941, 132: 411
- repeated artificial pneumothorax, 1949, 159: 394
- plasma variation in, 1947, 148: 457
- shock, 1944, 141: 573
- simultaneous determination of, and available fluid volume, 1939, 125: 142
- spinal cord transection, 1941, 134: 310
- thiocyanate space, 1950, 162: 695
- traumatic shock, 1943, 140: 199; 1944, 141: 54
- whole-body x-irradiation, 1951, 164: 453

PLASMA VOLUME, MEASUREMENT

- comparison with T-1824 and antigens, 1950, 163: 517
- critique of method, 1947; 151: 297
- errors in calculation from concentration of T-1824, 1943, 138: 636
- re-evaluation of determination with T-1824, 1947, 161: 234
- training of animals, 1947, 151: 504
- with autogenous plasma, 1947, 151: 297
- with blood volume and thiocyanate space, 1949, 156: 227
- with successive injections or T-1824, 1950, 161: 483
- with T-1824, 1948, 152: 563

PLASMA, CONSTITUENTS OF: *see under name of constituent*

PLASMAPHERESIS

- for production of hypoproteinemia, 1950, 162: 153; 1950, 162: 162
- infusion of, in burn shock, 1947, 150: 432

PLATELETS

- as foci for blood coagulation, 1949, 158: 84
- dicumarol, count and adhesiveness, 1944, 142: 279
- extracts of, 1948, 154: 140
- fragility of, 1944, 141: 451
- prothrombin utilization, 1949, 159: 316
- stimulation of smooth muscle by, 1944, 142: 14

PLATNER, W. S. Hypothermia effects on goldfish and turtle, 1950, 161: 399

PLAUT, G. W. E. and LARDY, H. A. Metabolism of spermatozoa, 1950, 162: 598

PLEKKER, J. D.: *see* SAYERS, G.

PLESSET, M. S.: *see* VAN HARREVELD, A.

PLETHORA

location of mid-point of right atrium, 1947, 148: 237

PLETHYSMOGRAPHY

- arterial reaction, 1940, 130: 183
- cuff width and blood pressure determinations, 1946, 146: 184
- measurement of volume of mouse tail, 1950, 162: 227
- photoelectric, for measurement of blood flow, 1946, 145: 716
- to measure blood supply to skin, 1938, 124: 328
- photoelectric recording, 1940, 130: 177
- reaction of human umbilical artery, 1951, 164: 87
- records in finger, 1940, 130: 58
- tail, adaptation to blood pressure measurements in mouse, 1948, 153: 330
- temperature and blood pressure determination in rats, 1946, 146: 181
- vascular resistance in hemorrhagic shock, 1946, 147: 686
- venous reaction, 1940, 130: 177

PLEURA

effusion, in thiourea intoxication, 1945, 144: 743

PLOTKA, C., PETERFALVI, M., JEQUIER, R. and VELLUZ, L. Thiamine triphosphoric acid, 1949, 158: 279

PMS: *see* GONADOTROPINS, equine

PNEUMATIC ANTI-BLACKOUT SUIT

hydrostatic pressures in radial acceleration, 1947, 151: 459

PNEUMOCARDIOGRAM

in normal individuals, 1942, 136: 523

PNEUMOTHORAX

- artificial and repeated, hematocrit, hemoglobin, plasma volume, 1949, 159: 394
- respiratory activity, 1942, 136: 490
- respiratory drives, 1942, 135: 541

POBLETE, R.: *see* HUDOBRO, F.

POEL, W. E. Myoglobin and anoxemia, 1949, 156: 44

POGRUND, R. S. and STEGGERDA, F. R. Gas transfer between colon and blood, 1948, 153: 475

POHL, H. A., FLEXNER, L. B. and GELLHORN, A. Transfer of radioactive sodium across placenta, 1941, 134: 338

—See FLEXNER, L. B.

POLARIZATION

- axon spike potential under, 1949, 159: 217
- of spinal cord elements, 1950, 160: 451

POLDERMAN, H.: *see* COPE, O.

POLLACK, F.: *see* GELLHORN, E.

POLLACK, H.: *see* BERRYMAN, G. H.

POLLEY, J. R.: *see* FRIEDMAN, S. M.

POLLOCK, G. H. and BAIN, J. A. β -chlorinated amine convulsions, 1950, 160: 195

—See SILVER, M. L.

POLLOCK, J. H. *see* HAYWARD, S. J.

POLLOCK, L. J. and MAYER, L. L. Phenomenon of electrically produced phosphenes, 1938, 122: 57

POLLOCK, W.: *see* KRICHESKY, B.

POLYCYTHEMIA

- acclimatization, 1947, 148: 161
- amphetamine sulfate, 1942, 137: 95
- anoxia, blood transfusion, 1949, 156: 158
- artificial fever, 1939, 125: 609
- chemoreceptors, oxygen saturation, 1951, 164: 226
- cobalt, 1940, 128: 347; 1945, 144: 464
 - ascorbic acid, 1949, 158: 315
 - maintenance of, in rats, 1940, 130: 373
 - mechanism of, 1940, 129: 140; 1944, 142: 173
- ephedrine, amphetamine, 1941, 134: 219
- erythrocyte injection, 1947, 148: 152
- experimental, choline or liver, 1939, 127: 322
- failure to produce with ephedrine, 1951, 167: 59
- growth at high altitude, 1951, 166: 394
- heart rate, 1944, 142: 695
- production of, 1942, 137: 699; 1948, 154: 513
- reduction of, 1946, 146: 233
 - by liver administration, 1938, 122: 397
- renal hemodynamics in, 1951, 165: 399
- resistance to anoxia, 1943, 140: 305
- xanthopterin, 1948, 153: 136

POLYETHYLENE GLYCOLS

- excretion and distribution of, 1948, 152: 93

POLYPNEA

- due to pain, mechanism in, 1939, 127: 666
- thermal, energy metabolism, 1940, 129: 626

POLYURIA

- desoxycorticosterone, 1943, 139: 710
- diet, 1943, 139: 700
- salt intake, 1940, 131: 363

POMARANC, M. M.: *see* SMITH, J. J.

POMERANTZ, L.: *see* MULINOS, M. G.

POMERENE, ELIZABETH: *see* DOMINGUEZ, R.

POMMERENKE, W. T., HAHN, P. F., BALE, W. F. and BALFOUR, W. M. Transmission of iron to fetus, 1942, 137: 164

PONDER, E. Determination of number of red blood cells, 1941, 134: 739

— and HYMAN, C. Cytolytic effect of saponin on blood vessel walls, 1943, 138: 432

— and MACLEOD, J. Oxygen consumption of white blood cells, 1938, 123: 420

—, HYMAN, C. and WHITE, L. Activity of hemolysins in vivo, 1941, 132: 18

PONS

- heat regulating fibers from, 1946, 147: 500
- passage of descending nerve fibers for heat regulation through, 1948, 154: 82
- regulation of respiration by, 1950, 160: 385

Poo, L. J.: *see* ADDIS, T.

— *See* YUEN, D. W.

POPKIN, G. L.: *see* BANUS, M. G.

POPLITEAL NERVES

- electrical responses of, 1939, 126: 42

POPPER, H.: *see* GREENBERG, R.

PORE THEORY

- capillary permeability, 1951, 167: 13

PORK

- digestion of, in dog, 1941, 135: 12

See page iii for guide to use of index

PORTAL VEINS

- bilateral flow, 1945, 143: 106
- blood flow in, 1941, 132: 383
- respiration, 1951, 167: 738
- hypertension in and irreversible shock, 1950, 160: 437
- pressure gradients in, in hemorrhagic shock, 1946, 146: 202

PORTER, BLANCHE: *see* NIESET, R. T.

— *See* PARSON, W.

PORTER, R. C.: *see* LAWSON, H. C.

PORTER, R. R.: *see* BURCH, G. E.

PORTER, WILLIAM TOWNSEND

- memorial, 1949, 158: v

POSITION

- of body, conditioned reaction to, 1939, 125: 266
- location of superior vena cava, 1947, 148: 235
- respiratory and circulatory reflexes, 1946, 147: 661
- of heart, electrocardiogram, 1948, 154: 251

POST, J.: *see* PATEK, A. J., JR.

POST, R. L.: *see* SPEALMAN, C. R.

POST, R. S. Cardiac output and renal function, 1951, 165: 278

—, VISSCHER, P. H. and WIGGERS, C. J. O₂ consumption in shock, 1948, 153: 71

— *See* SELKURT, E. E.

POSTCAVAL VEINS

- nitrogen concentration in denitrogenating cats, 1946, 146: 234

POSTEL, S.: *see* BOYARSKY, L. L.

— *See* PATT, H. M.

— *See* TOBIAS, J. M.

POSTERIOR PITUITARY GLAND

- adrenal cortex, 1939, 125: 71
- cholinesterase in, 1947, 148: 677
- hormones and glucose tolerance, 1949, 157: 59
- production of experimental polycythemia, 1942, 137: 699
- removal, dogs with various plasma osmotic pressures and pituitrin replacement, 1945, 144: 314
- renal hypertension, 1944, 141: 389
- renal function, 1938, 123: 630
- vitamin E deficient animals, 1944, 141: 243

POSTERIOR PITUITARY HORMONES

- antagonism of, and desoxycorticosterone, 1941, 133: 511
- cardiovascular response to, 1944, 142: 116
- excretion of water, chloride, urea, 1940, 128: 748
- oxytocic principle, hormonal nature of, 1938, 124: 314
- permeability of frog skin, 1951, 164: 44
- renal function in opossum, 1938, 121: 528
- renal response to, 1941, 131: 601
- survival time of decapitated head, 1944, 142: 154
- water balance of frog, 1938, 122: 191; 1938, 124: 759; 1949, 157: 412; 1950, 163: 364

POSTURAL REFLEXES: *see* POSTURE

POSTURE

- army pack, 1944, 140: 646
- blood flow, 1942, 136: 384
- blood volume, 1941, 133: 128
- cardiovascular response to, 1948, 152: 141
- circulation time, 1939, 125: 481

- energy required to maintain, 1940, 129: 774
 intramuscular pressure, 1939, 126: 247
 metabolic rate, 1938, 122: 563
 peripheral circulation, 1939, 127: 573
 previous, resistance to acceleration, 1945, 143: 268
 reflexes, thiamin deficiency, 1944, 141: 444
 relaxation, different lung volumes, 1946, 146: 171
 respiratory adjustment to change, 1940, 130: 772;
 1943, 138: 364
 respiratory and circulatory adjustments to, 1938, 124:
 457
 skin temperature, 1938, 124: 161
 skin, subcutaneous temperatures, 1939, 125: 476
 stability and stance under army pack, 1944, 140:
 647
 standing, as a geotropic reflex, 1938, 121: 471
 eccentricity, 1943, 140: 205
 vital capacity, 1948, 152: 671; 1950, 161: 352
- POTASSIUM**
 abolition of QI by, in heart, 1942, 135: 752
 accommodation of sciatic nerve, 1940, 130: 490
 acetylcholine synthesis, 1944, 142: 514
 adrenal gland weight, 1938, 122: 586
 amino acid nitrogen in blood, 1940, 130: 171
 anaerobic glycolysis in liver slices, 1946, 147: 509
 antagonistic effect of Ca and, in frog heart, 1942,
 136: 352
 balance, adrenalectomy, 1950, 160: 95
 with cortisone and DCA, 1951, 166: 495
 binding of ion by muscle homogenates, 1950, 163:
 240
 blood pressure, 1939, 127: 722
 brain metabolism, 1942, 137: 327
 carbohydrate changes after administration, 1938,
 122: 524
 cardiac contractility, 1951, 165: 525
 cardiac glycosides, 1942, 137: 6
 cardiovascular sensitivity to, 1947, 149: 591
 chloride excretion, 1950, 162: 668
 clearance by kidney, 1951, 164: 146
 coronary vessels, 1938, 124: 155
 deficiency, ascorbic acid content of adrenals, 1951,
 165: 131
 electrocardiogram, 1950, 162: 538
 gastrointestinal motility, 1951, 164: 263
 hypertension, 1951, 167: 457
 metabolism, 1951, 167: 314
 pathology in rats, 1945, 145: 291
 sodium penetration into muscle, 1940, 128: 450
 tissue electrolytes, 1939, 127: 387
 development of tolerance to, 1950, 162: 354
 dietary level, growth, blood and tissue concentra-
 tions, 1950, 162: 182
 dissociation produced by isotonic glucose, 1948, 154:
 455
 distribution of sodium and chloride, 1943, 139: 671
 diuretic effect of, 1941, 134: 729
 equilibrium in muscle, 1945, 143: 674
 erythrocyte permeability to, 1948, 152: 113; 1950,
 162: 610
 excretion of, 1949, 158: 214; 1950, 162: 348; 1950,
 162: 655
 after adrenalectomy, 1939, 127: 51
 during infusion of $K_4Fe(CN)_6$, 1950, 162: 364
 during osmotic diuresis, 1950, 163: 175
 extracellular fluid volume, 1950, 162: 681
 nitrogen mustard, 1948, 155: 299
 of salts of, 1942, 138: 95
 fate of liberated in activity, 1939, 127: 356
 flame photometer measurements of, 1948, 153: 428
 frog ventricle, 1943, 138: 761
 gastric secretion, 1941, 134: 27
 ideal osmotic work of excreting, 1949, 157: 359
 increased sensitivity to in hypothermic animals,
 1947, 151: 366
 intestinal absorption, 1938, 121: 475
 intolerance to, in adrenalectomized rats, 1945, 144:
 103
 intoxication, cold, 1947, 151: 366
 ischemic pain and, 1939, 127: 315
 isolated frog heart, 1940, 130: 733
 kidney reabsorption of, 1951, 165: 93
 liberation from muscle, blood flow, 1939, 128: 141
 loss from muscle after adrenalectomy, 1947, 148: 277
 cortin, 1938, 124: 324
 loss from stimulated muscles, 1938, 124: 213
 magnesium antagonism, 1951, 164: 702
 mammalian heart, 1942, 136: 333
 metabolism, barbiturate anesthesia, 1950, 163: 622
 ion exchange resins, 1950, 160: 268
 permutit Z feeding, 1951, 164: 695
 metabolism of spermatozoa, 1943, 138: 744
 movement of, lactic acid, 1940, 131: 494
 muscle sensitivity to, 1946, 145: 610
 nerve-free smooth muscle of chick amnion, 1940,
 131: 527
 neurohumoral regulation of balance, 1950, 161: 289
 neuromuscular transmission in cats, 1940, 130: 205
 optimum and toxicity levels in rats, 1951, 166: 210
 permeability of blood-spinal fluid barrier to, 1945,
 143: 87
 physiological action of natural and radioactive,
 1939, 125: 412
 physiological activity and radioactivity, 1939, 125:
 405
 poisoning, electrolyte distribution in muscle, 1943,
 139: 667
 in traumatic shock, 1943, 139: 686
 post-tetanic potentiation, 1940, 130: 438
 recovery of fatigued muscle, 1941, 131: 615
 renal regulation of retention and excretion, 1947,
 148: 54
 renal secretion of, 1950, 161: 151
 replacement, in muscle by sodium, 1941, 135: 234
 requirement for, 1945, 145: 296
 respiration of brain cortex, 1942, 135: 310
 resting potential of nerve, 1948, 153: 99
 sensitivity of muscle to, epinephrine, physostigmine,
 1946, 146: 569
 various substances, 1946, 145: 420
 varying concentrations of, 1946, 146: 570

POTASSIUM

- sensitizing effect to acetylcholine, 1944, 142: 631
- survival time after nephrectomy, 1942, 136: 571
- threshold of retention for, 1947, 148: 66
- tolerance to intoxication due to, 1947, 151: 138
- toxicity of, 1939, 127: 430
 - extracted from muscle, 1944, 141: 262
 - glutathione protection against, 1951, 164: 766
- tubular transport mechanisms for, 1951, 165: 109
- uptake and output by perfused liver, 1938, 124: 704
- uterine motility, 1938, 123: 752
- volume distribution of, 1950, 163: 154

POTASSIUM (AS TISSUE CONSTITUENT)

- accumulation in kidney slices, 1951, 165: 113; 1951, 167: 208
- changes in submaxillary glands, 1941, 135: 167
- distribution of in man, 1948, 153: 381
- electrolyte and water content of heart-lung ventricles, 1942, 136: 518
- exchange between blood and muscle, 1940, 128: 641
 - during stimulation, 1940, 128: 648
- extracellular, homeostasis of, 1949, 156: 290
- increase in blood compared to loss from muscle, 1939, 127: 357
- intracellular concentration, 1949, 159: 68
- muscle electrolytes, 1951, 167: 669
- of blood, diabetic acidosis, 1947, 149: 669
 - during histamine intoxication in adrenalectomized rats, 1945, 144: 104
 - epinephrine, 1939, 126: 708
 - evisceration, 1950, 160: 250
 - in tetany and asphyxia, 1938, 124: 192
 - insulin, 1938, 123: 610
 - varying levels of K and Na, 1950, 162: 182
- of blood and tissues, hypotonic saline injection, 1949, 159: 61
- of blood and urine, ascorbic acid metabolism, 1951, 166: 376
 - of adrenalectomized animals, 1951, 167: 328
- of blood, muscle and liver, 1939, 127: 387
- of body, exchange with radioactive potassium, 1941, 135: 149
- of brain and muscle, free and bound, 1948, 155: 141
 - stress, 1948, 152: 423
- of brain and plasma, 1949, 156: 325
- of brain cortex, 1949, 157: 236
 - convulsions, 1947, 150: 32
- of cartilage, 1951, 166: 331
- of cerebrospinal fluid, neuromuscular response to, 1938, 121: 719
- of fat-free brain, 1940, 128: 684
- of gastric juice, 1941, 133: 542
- of genital tract, 1940, 130: 290
- of heart after coronary occlusion, 1942, 136: 481
- of heart and skeletal muscle, 1943, 139: 670
- of hepatic bile, chronic fistula, 1945, 145: 187
- of incubated liver slices, 1950, 163: 598
- of ischemic and congested heart, 1938, 123: 443
- of liver, anoxia, 1945, 145: 33
 - in hemorrhagic shock, 1945, 145: 33
 - infusion of, 1951, 167: 514

- of muscle, 1940, 129: 267; 1951, 166: 426
 - acidosis, 1951, 167: 669
 - adrenalectomy, 1941, 134: 227
 - after ischemia, 1951, 167: 308
 - desoxycorticosterone, 1941, 135: 234
 - stimulation, 1938, 121: 600
 - tetanic stimulation, 1940, 129: 264
- of muscle and skin, splenectomy, 1950, 160: 298
- of organs of potassium-deprived rats, 1940, 128: 452
- of oxygenated human blood, 1947, 149: 341
- of plasma, after epinephrine, 1938, 121: 325
 - carbon dioxide, 1947, 151: 469
 - DCA and ACTH, 1950, 160: 223
 - distribution of radioactive, 1941, 132: 482
 - experimental traumatic shock, 1943, 138: 501
 - gravity shock, 1944, 141: 166
 - in shock, 1947, 149: 53
 - metabolic activity, 1940, 129: 245
 - of cardiac blood at death, 1939, 126: 338
 - sodium, 1950, 162: 186
 - vivodialysis of and restoration, 1949, 157: 401
 - whole-body x-irradiation, 1951, 164: 454
- of plasma and cerebral cortex, 1949, 156: 165
- of plasma and erythrocytes of adrenalectomized dog, 1950, 160: 92
- of plasma and plasma ultrafiltrate, 1950, 162: 351
- of plasma and urine, 1949, 157: 359
- of salivary gland, stimulation, 1938, 124: 75
- of serum, 1940, 130: 565
 - adrenalectomy, 1938, 123: 703; 1939, 127: 51
 - before and after splenectomy, 1950, 160: 297
 - desoxycorticosterone, 1941, 135: 233
 - during recovery from exercise, 1940, 128: 422
 - electrocardiogram, 1938, 124: 478
 - epinephrine, 1940, 130: 565
 - excitement, 1940, 129: 758
 - following muscle trauma, 1947, 148: 450
 - in response to vagal stimulation, 1944, 142: 628
 - in tourniquet shock, 1945, 144: 501; 1946, 146: 258
 - muscle electrolytes, 1940, 130: 747
 - pitressin, 1939, 127: 66
- of serum and cells in pregnancy, 1942, 137: 386
- of serum and muscle, exercise, 1941, 132: 801
- of serum and myocardium, 1951, 166: 279
- of serum, blood and urine, hypertonic injections, 1949, 159: 162
- of serum water, during hemorrhagic shock, 1946, 147: 306
- of stimulated muscle, 1940, 128: 444
 - adrenalectomy, 1945, 143: 559
- of true plasma, heparinized plasma and serum, 1950, 162: 350
- of tissues, adrenalectomy, 1950, 160: 98
 - at low atmospheric pressure, 1944, 142: 63
 - in hypertension, 1950, 161: 280
- of urine, 1942, 138: 94
 - redistribution of, in burn shock, 1947, 151: 155

POTASSIUM (RADIOACTIVE)

- absorption from intestinal tract, 1938, 124: 667
- distribution of, 1941, 132: 474

- exchange, denervation, stimulation of muscle, 1941, 132: 612
- exchange with body potassium, 1941, 135: 149
- permeability of blood-cerebrospinal barrier to, 1943, 140: 51
- of denervated muscle, 1942, 137: 392
- of erythrocytes to, 1941, 135: 93
- POTASSIUM ARSENITE: *see* ARSENITE
- POTASSIUM BROMIDE: *see* BROMIDE, K
- POTASSIUM CHLORIDE
- acetylcholine responses of denervated muscle, 1940, 131: 216
- action at neuromuscular junction, 1948, 152: 53
- cardiac mass, 1951, 166: 273
- excretion of, 1942, 138: 95
- fibrillation and atrophy of denervated muscle, 1942, 135: 749
- frog heart rate, 1938, 124: 185
- muscle action potentials, 1948, 154: 64
- muscular response to electrical stimulation, 1947, 149: 7
- renal clearance of ascorbic acid, 1944, 141: 425
- replacement of perilymph with, 1939, 125: 694
- seizure pattern in rat, 1949, 157: 235
- tolerance, in x-irradiated mice, 1951, 167: 321
- urine volume after injection, 1939, 127: 542
- POTASSIUM FERRICYANIDE
- blood coagulation, 1940, 128: 401
- POTASSIUM IODIDE
- muscular atrophy, 1949, 159: 7
- POTASSIUM MONOIODOACETATE: *see* IODOACETIC ACID, K salt
- POTASSIUM OXALATE: *see* OXALATE
- POTASSIUM PHENOL SULFONATE
- muscle sensitivity to acetylcholine, 1946, 145: 610
- POTASSIUM PHOSPHATE: *see* PHOSPHATE, K
- POTASSIUM SULFATE: *see* SULFATES, K
- POTASSIUM-LOW DIET
- addition of Rb or Cs, 1943, 138: 246
- boron, 1945, 143: 385; 1947, 150: 520
- desoxycorticosterone and, action potential, 1947, 150: 454
- renal size, 1942, 136: 346
- POTATO OXIDASE
- clotting time, 1945, 144: 453
- POTENTIAL TIME CURVE
- injury to heart muscle, 1947, 150: 578
- POTENTIATION
- chemical theory of, 1940, 130: 442
- electrical theory of, 1940, 130: 442
- failure of, in cooled muscle, 1951, 166: 480
- post-tetanic, curare, 1940, 130: 437
- in muscle, 1940, 130: 433
- potassium, 1940, 130: 438
- POTTER, V. R.: *see* McSHAN, W. H.
- POUNDS, G. A.: *see* LEE, R. H.
- POWER, M. H.: *see* GOUDSMIT, A., JR.
- POWERS, E. B. and CLARK, R. T., JR. Control of breathing in fishes by chemoreceptors, 1942, 138: 104
- POWERS, S., REED, C. and GREGERSEN, M. I. Morphine in hemorrhagic and traumatic shock, 1947, 148: 269
- POWERS, S. R.: *see* SPENCER, F. C.
- PRATT, E. B., BURDICK, F. D. and GOLDNER, M. G. Bile fistula and salyrgan diuresis, 1951, 164: 639
- PRATT, F. H.: *see* STEIMAN, S. E.
- PRATT, JEAN: *see* ALLARDYCE, J.
- PREC, O., KATZ, L. N., SENNETT, L., ROSENMAN, R. H., FISHMAN, A. P. and HWANG, W. Kinetic energy of the heart, 1949, 159: 483
- PREGNANCY
- acetylcholine-equivalent of uterus, placenta, 1939, 127: 343
- adrenal cortical hormones, 1938, 122: 16
- blood changes due to lipemia and heparin in, 1951, 164: 807
- cardiac hypertrophy during, 1938, 122: 34
- contractile proteins of uterine muscle, 1950, 160: 46
- control of length of, 1938, 122: 86
- distribution of water and electrolytes in, 1942, 137: 384
- excretion of estrogens during, 1938, 121: 98
- experimental hypertension, 1940, 128: 722; 1947, 151: 373
- gall bladder activity, 1941, 132: 136
- gall bladder function, 1942, 135: 347
- growth, 1938, 123: 589; 1940, 128: 365
- in ovariectomized rabbits, 1938, 124: 486
- inulin, urea clearance, 1939, 125: 790
- kidney function, 1939, 127: 731
- maintenance by progesterone, 1939, 125: 31
- mechanism of termination, 1938, 122: 91
- micturition volume of rat, 1943, 139: 535
- minimal effective dose of histamine, 1949, 157: 94
- nitrogen metabolism, 1938, 121: 231
- plasma proteins, 1943, 139: 596
- pressor response to renin, 1940, 128: 719
- progesterone of corpus luteum, 1938, 123: 473
- prolongation by injection of antuitrin, 1938, 122: 455
- prothrombin activity, 1942, 137: 510
- rapid test for in mouse, 1946, 145: 387
- response to placental toxin during, 1946, 147: 255
- sodium chloride appetite, 1938, 121: 185
- sympathectomy, 1938, 122: 659
- test, utilizing frogs and toads, 1950, 163: 294
- thyroidectomy, 1939, 126: 234
- urine, formalin, 1940, 128: 427
- induction of ovulation by, 1941, 132: 405
- uterine changes during, 1940, 128: 655; 1947, 148: 77
- weight of parathyroid glands, 1943, 139: 406
- PREGNANDIOL
- pregnancy in ovariectomized rabbits, 1938, 124: 486
- PREGNANOLS
- body weight of mice, 1949, 158: 55
- PREGNENOL-3 β , ONE-20
- body weight of mice, 1949, 158: 55
- phosphatases of the kidney, 1945, 145: 120
- PREGNENOLONE
- fatigue, 1948, 152: 423
- PREGNENYNOLONE: *see* TESTOSTERONE, ethynyl

- PREISS, A. P.: *see* SHAFIROFF, B. G. P.
- PRELOBAN: *see* ANTERIOR PITUITARY HORMONES
- PRESENT, CLARA H.: *see* RALLI, ELAINE P.
- PRESNELL, A. K. Thrombin, a proteolytic fibrinogenase, 1938, 122: 596
- PRESNELL, M. W.: *see* ARCHDEACON, J. W.
- PRESSOR ACTIVITY: *see* VASOPRESSOR ACTIVITY
- PRESSOR RESPONSE: *see* VASOPRESSOR ACTIVITY
- PRESSOR SUBSTANCES: *see* VASOPRESSOR ACTIVITY
- PRESSORECEPTORS: *see* VASOPRESSOR ACTIVITY
- PRESSURE CHAMBER
for studying frog muscle changes, 1947, 148: 492
- PRESSURE PULSE
anesthesia, 1939, 128: 240
as means of predicting stroke volume, 1948, 153: 298
calculation of cardiac ejection from, 1947, 148: 27
contour, for determination of cardiac output, 1949, 159: 385
measurement of stroke volume from, 1947, 148: 14
simultaneous atrial, 1948, 154: 258
transmission time, for various regions of the aorta, 1945, 144: 547
- PRESTON, F. W.: *see* WARKENTIN, J.
- PRESTON, SYLVIA N. and ORDWAY, N. K. Arterial oxygen content during inhalation of air and oxygen, 1948, 152: 696
- PRESTRUD, MILDRED C.: *see* INGLE, D. J.
- PRICE, J. W.: *see* BOBEY, M. E.
- PRINCE, J. E.: *see* FARDON, J. C., SR.
- PRINCE, R.: *see* PAGE, I. H.
- PRINZMETAL, M., ORNITZ, E. M., JR., SIMKIN, B. and BERGMAN, H. C. Arterio-venous anastomoses, 1948, 152: 48
— *See* BERGMAN, H. C.
— *See* LEO, S. D.
- PRISCOL: *see* PRISCOLINE
- PRISCOLINE
adrenaline effect, 1951, 164: 400
cardiac systole and cycle relations, 1948, 154: 10
potassium distribution, 1950, 163: 154
stroke volume of heart, 1948, 153: 292
- PRITCHARD, J. A. Erythrocyte age and CHE activity, 1949, 158: 72
- PRITCHARD, W. H., GREGG, D. E., SHIPLEY, R. E. and WEISBERGER, A. S. Vasomotor drugs and flow patterns in arteries, 1943, 138: 731
— *See* ECKSTEIN, R. W.
— *See* GREGG, D. E.
- PRIVINE
cardiac systole, cycle relations, 1948, 154: 10
respiratory tract fluid, 1943, 138: 566
vertical-tube curves of rabbit ear blood vessels, 1951, 164: 337
- PROCAINE ANESTHESIA
abnormal electrocardiogram produced by potassium deficiency, 1950, 162: 542
cardiac resuscitation, 1951, 164: 601
energy-rich phosphates and cardiodynamics in heart-lung preparation, 1947, 150: 739
prevention of shock, 1944, 140: 495
ventricular fibrillation thresholds, 1940, 131: 296
- PROCEEDINGS
American Physiological Society, March 30-April 2, 1938, 123: 1
April 26-29, 1939, 126: 417
March 13-16, 1940, 129: 297
April 15-19, 1941, 133: 189
September 16-18, 1948, 155: 425
September 14-17, 1949, 159: 551
September 13-16, 1950, 163: 695
September 6-8, 1951, 167: 763
- PROCHNIK, G., MAISON, G. L. and STUTZMAN, J. W.
Carotid occlusion and arterial pressure, 1950, 162: 553
- PROCTOR, D. F.: *see* OTIS, A. B.
- PROEMMEL, D. D.: *see* LILIENTHAL, J. L., JR.
— *See* RILEY, R. L.
- PROFIBRINOLYSIS
staphylokinase, 1951, 166: 594
- PROGESTERONE
blood and tissue chloride, 1941, 132: 522
body weight, 1949, 158: 55
capillary permeability, 1941, 134: 260
carbohydrate metabolism, 1941, 132: 446
deprivation of, uterine bleeding, 1938, 124: 4
estrogen interaction in formation of placentomata, 1939, 128: 215
fibrillation and atrophy of denervated muscle, 1942, 135: 750
gall bladder evacuation, 1942, 135: 349
gall bladder motility, 1941, 132: 136
gonadotropic activity of pituitary, 1939, 127: 192
hypertension after hypophysectomy, 1946, 147: 471
inhibition of estrous cycles by, 1938, 122: 175
of gonadotrophic hormone by, 1951, 164: 26
maintenance of pregnancy by, 1939, 125: 31
maternal behavior, 1942, 137: 299
metabolism, in tissues, 1944, 142: 326
of corpus luteum, 1938, 123: 471
overt and masked action of, 1943, 139: 99
pregnancy in ovariectomized rabbits, 1938, 124: 486
survival after adrenalectomy, 1940, 131: 444
survival of pseudo-pregnant adrenalectomized ferret, 1938, 124: 767
uterine weight, 1940, 129: 547
x-ray injury, 1949, 159: 277
- PROGESTIN: *see* PROGESTERONE
- PROGNOSIS
formula for calculating in hemorrhagic shock, 1945, 143: 200
- PROGYNON B: *see* ESTRADIOL, benzoate
- PROLACTIN: *see* LACTOGENIC HORMONE
- PROPANOL
survival after explosive decompression, 1950, 163: 401
- PROPANOZONE
energy-rich phosphates, cardiodynamics in heart-lung preparation, 1947, 150: 739
- PROPIONATE
Na, blood coagulation, 1940, 130: 576
- PROPRIOCEPTIVE REFLEXES
studies of stretch reflex, 1948, 154: 433

PROPRIOCEPTORS

role in shivering, 1945, 145: 264

PROPYL BIS(β -CHLOROETHYL)AMINE

inhibitory effect on brain cholinesterase, 1950, 160: 192

N-PROPYL BIS(β -CHLOROETHYL)AMINE

convulsant activity of, 1950, 160: 197

PROPYLENE GLYCOL

asphyxial depolarization potential, 1950, 160: 453
heart rate, 1940, 129: 295

PROPYLTHIOURACIL: *see* THIOURACIL, propyl-

PROSKAUER, G. G., NEUMANN, C. and GRAEF, I.
Temperature and blood pressure in rats, 1945, 143: 290

PROSSER, C. L.: *see* SICHEL, F. J. M.

PROSSER, M.: *see* JANES, R. G.

PROSTATE

chemical composition of secretion, 1942, 136: 469
development of tubules, adrenal cortical hormones, 1939, 126: 371

pituitary secretion, 1939, 128: 173

weight, androgens, 1948, 154: 461

estrogens, 1947, 151: 127

steroids, 1944, 142: 315; 1946, 145: 551

testosterone, 1943, 140: 232

PROSTATIC FLUID

ascorbic acid content of, 1941, 133: 85

coagulation and fibrinolysis by, 1943, 139: 129

PROSTIGMINE

acetylcholine vasopressor effect, 1940, 130: 353

action on superior cervical ganglion, 1938, 122: 708

activity of adenosine-triphosphatase, 1948, 152: 90

activity of the sloth, 1939, 127: 129

cortical potentials, 1942, 135: 634; 1948, 153: 114

crossed phrenic phenomenon, 1941, 134: 103

denervated muscles, 1949, 158: 142

denervated nictitating membrane, 1949, 156: 281

doryl vasopressor effect, 1940, 130: 348

electrical excitability of muscle, 1940, 129: 36

fibrillation and atrophy of denervated muscle, 1942, 135: 749

hyperthyroid heart, 1947, 148: 692

intestinal motility, 1944, 141: 463

motion sickness, 1946, 146: 462; 1948, 154: 444

muscle, 1939, 127: 470; 1948, 153: 358

potentiation of pressor action of acetylcholine, 1940, 130: 346

relaxation of pelvic ligatures due to, 1947, 151: 134

renal electrolyte metabolism, 1951, 167: 209

stimulation of muscle, 1948, 153: 358

survival after explosive decompression, 1950, 163: 401

transmission fatigue in regenerating nerve and muscle, 1950, 161: 147

volume and enzyme content of pancreatic secretion, 1944, 141: 510

PROTAMINE SULFATE

blood clotting, 1940, 130: 760

vasomotor action of, 1951, 167: 1

PROTANOPE

dark adaptation for, 1946, 146: 693

PROTEIN

clearance in kidney, 1950, 163: 461

depletion, liver catalase activity, 1951, 167: 581

digestion in stomach, 1941, 132: 42

in vivo, 1941, 135: 6

products and pancreatic secretagogue action, 1941, 134: 656

excretion, 1950, 163: 662

mechanism of, 1948, 154: 532

glucose equivalent of, 1951, 166: 213

specific dynamic action and sympathetic nervous system, 1939, 127: 642

split products of, absorption from chronic isolated colon loops, 1939, 125: 707

PROTEIN (AS TISSUE CONSTITUENT)

of blood, anesthesia, 1950, 160: 279

environmental temperature, 1940, 130: 34

evisceration, 1950, 160: 250

low, by plasmapheresis, 1950, 162: 153

low, following severe hemorrhage, 1940, 128: 332

low, plasma and interstitial fluid volumes, 1950, 162: 153

produced by low protein diet and plasmapheresis, 1950, 162: 162

radiation syndrome, 1951, 165: 32

temperature, posture, 1947, 150: 633

thyroid, 1948, 152: 104

of body, high fat diet, 1944, 142: 510

of genital tract, 1940, 130: 290

of liver and plasma, thiouracil, 1947, 149: 564

of lymph, renin, 1946, 146: 668

of muscle, 1940, 129: 267

during atrophy, 1950, 161: 408

of pericardial fluid, 1940, 129: 639

of plasma, acclimatization to high altitude, 1947, 149: 574

after hepatectomy, 1946, 146: 674

androgens, 1948, 154: 459

anesthesia, 1943, 138: 458; 1948, 152: 7

binding of carinamide by, 1949, 159: 182

caloric restrictions, 1946, 147: 425

carbon tetrachloride, 1943, 139: 593

combination of Evans blue with, 1947, 151: 26
electrophoretic study of, 1949, 159: 74; 1950, 161: 101

environmental conditions, 1940, 129: 77

gravity shock, 1944, 141: 166

growth, 1944, 142: 97

hemorrhage, 1943, 138: 569

hemorrhagic and traumatic shock, 1947, 149: 54

hepatectomy, 1945, 145: 208

hepatitis, 1943, 139: 593

high protein diet, 1951, 165: 73

histamine injection, 1942, 137: 291; 1944, 142: 164

hypothermia, 1947, 148: 611

in traumatic shock, 1945, 144: 434

injected 5 per cent glucose, 1944, 140: 592

injected hypertonic glucose, 1944, 140: 593

injected hypertonic plasma, 1944, 140: 595

injected normal plasma, 1944, 140: 594

injected saline, 1944, 140: 591

PROTEIN (AS TISSUE CONSTITUENT)

- liver, 1943, 139: 556
- muscle trauma, 1947, 148: 114
- physiological effect of, 1947, 150: 471
- pregnancy and hepatitis, 1943, 139: 596
- pressure breathing, 1948, 155: 213
- radiation, 1950, 162: 705
- radiation syndrome, 1951, 165: 43
- regeneration, 1945, 144: 369
- regeneration after hemorrhage, 1943, 139: 638
- regeneration related to anemia, 1941, 134: 263
- replacement after hemorrhage, 1942, 136: 301
- shock, 1942, 137: 281; 1950, 161: 101
- starvation and recovery, 1947, 151: 526
- temperature, 1947, 149: 311
- under negative G, 1948, 153: 66
- whole-body x-irradiation, 1951, 164: 454
- of rat tissues, 1944, 141: 146
- of renal lymph, 1942, 138: 110
- of serum, acetylcholine, 1947, 148: 420
- adrenalectomy, 1942, 136: 778
- concentrated serum, 1938, 124: 791
- deafferentiation, 1947, 148: 549
- excitement, 1940, 129: 756
- exercise, 1938, 121: 293; 1938, 122: 106
- experimental shock, 1947, 148: 291
- growth, 1941, 132: 362
- heated casein, 1948, 152: 291
- hemorrhagic shock, 1946, 147: 306
- hypothermia, 1943, 140: 12
- in rat, 1940, 128: 545
- insulin, 1938, 123: 610
- level during dietary restrictions in man, 1946, 147: 47
- liver respiration, 1942, 135: 316
- pyridoxine deficiency, 1946, 146: 733
- recovery from exercise, 1940, 128: 422
- shock, 1947, 148: 166
- splenectomy, 1950, 160: 297
- thyroid, 1948, 152: 104
- of serum and cells in pregnancy, 1942, 137: 386
- of serum and peritoneal fluids, 1940, 129: 642
- of tissues, shock, 1944, 141: 573
- of various organs, 1940, 128: 545
- total circulating, experimental shock, 1944, 141: 573
- growth, 1944, 142: 97
- seasonal variation in, 1947, 148: 457

PROTEIN (DIETARY)

- activity, 1944, 142: 664
- appetite, 1941, 131: 639
- in vitamin B deficiency, 1939, 127: 202
- thiamin deficiency, 1938, 124: 596
- B-complex deficiency, 1950, 161: 518
- body growth, 1951, 165: 491
- cardiac function in rehabilitation after starvation, 1947, 150: 164
- choline hypertension, 1950, 162: 189
- common, nutritional value of, 1941, 133: 29
- consumption by men in army training centers, 1945, 144: 590
- deficiency, benzene poisoning, 1945, 145: 166

- benzene toxicity in, methionine, 1947, 148: 258
- bone growth, 1946, 146: 594
- composition of regenerating liver, 1948, 152: 11
- fatty liver, 1942, 138: 42
- gonadotropic content of pituitary, 1940, 128: 497
- hypercholesterolemia and lipemia produced by, 1946, 145: 661
- liver, 1946, 145: 649
- liver function, 1943, 139: 642
- liver function and serum phosphatase, 1942, 138: 184
- production of fatty liver, 1946, 145: 669
- production of hypoproteinemia by, 1950, 162: 162
- serum phosphatase and liver function, 1942, 138: 184
- high, appetite, fat deposition, 1941, 135: 195
- liver glycogen maintenance, 1942, 136: 746
- pancreatic enzymes, 1943, 138: 678
- plasma and liver protein after, 1951, 165: 73
- survival under accelerated metabolism, 1949, 159: 33
- hydrolysate, and gastric motility, 1939, 126: 28
- magnesium deficiency syndrome, 1951, 166: 408
- plasma protein regeneration, 1945, 144: 375
- quality, caloric intake, 1949, 157: 141
- regeneration of liver protein, 1947, 151: 391; 1947, 151: 399
- renal hemodynamics, 1944, 142: 363
- renal hypertension, 1949, 156: 422; 1950, 160: 31; 1950, 162: 368
- restriction in hypertension, 1950, 163: 190
- successive generations, 1938, 123: 526
- supplementation with, 1947, 148: 635
- toxicity of benzene, 1945, 145: 159
- vascular responses to, 1941, 133: 691

PROTEIN METABOLISM

- anabolism, androgens, 1950, 160: 64
- hormones, 1948, 155: 255
- steroids, 1950, 160: 56
- testosterone, 1948, 155: 272; 1950, 162: 581
- testosterone, growth hormone, 1950, 160: 66
- anterior pituitary, 1942, 136: 131
- critique of studies of combination with Evans blue, 1947, 151: 26
- in heart, kidney and liver, 1940, 129: 685
- in normal and phlorhizinized animals, 1939, 128: 113
- in thyroidectomized animals, 1939, 128: 113
- insulin, 1939, 126: 156
- after nephrectomy, 1938, 124: 569
- on nitrogen-free diet, 1938, 121: 231

PROTEOLYSIS

- alpha tocopheryl phosphate, 1948, 153: 131

PROTHROMBIN

- A, concentration and hepatectomy, 1945, 145: 206
- A and B fractions, hepatectomy, 1945, 145: 208
- interaction of, 1947, 149: 95
- activation, by trypsin, 1939, 126: 663
- pH, 1940, 130: 768
- activity in pregnancy and lactation, 1942, 137: 509
- aureomycin, 1951, 166: 578
- avian, species specificity, 1938, 123: 353

- B, changes in concentration following hepatectomy, 1945, 145: 206
calcium and, in blood clotting, 1947, 148: 213
complex, components of, 1947, 151: 63
constitution of, 1943, 140: 212
consumption in coagulation, 1949, 158: 387
conversion accelerator, evolution in stored plasma, 1949, 159: 322
conversion factors in blood coagulation, 1951, 166: 1
- derivatives from, 1951, 164: 722
dicumarol, 1948, 155: 394
estimation of, 1949, 159: 303
fibrinogen, 1941, 132: 666
fibrinogen deficiency in pups, 1951, 165: 188
heparin, natural antiprothrombin, 1941, 134: 47
hepatectomy, 1951, 164: 111
in hemophilia, 1950, 163: 148
isolation of, 1947, 150: 63
level, in bile fistula and jaundiced rats, 1939, 125: 423
nature of, 1947, 148: 563
of blood, 1941, 132: 239
deficiency: *see* HYPOPROTHROMBINEMIA
in various species, 1948, 154: 134
in vertebrates, 1939, 125: 296
produced by dicumarol-treated animals, 1948, 155: 394
reversible inactivation of, 1947, 150: 409
role of vitamin K in synthesis, 1951, 164: 716
salicylic acid, 1949, 159: 40
species specificity of, 1938, 123: 356
stability of, 1947, 150: 58
in stored plasma, 1948, 154: 122
storage and constitution, 1943, 140: 216
utilization, blood platelets, 1949, 159: 316
- PROTHROMBIN TIME
alumina and calcium phosphate gels, 1947, 150: 382
calcium concentration, 1945, 143: 356; 1945, 145: 69; 1947, 148: 213
dicumarol, 1945, 143: 355
of mixtures of prothrombin A and B, 1947, 149: 96
of normal and hemophilic plasmas, 1945, 143: 67
plasma, dicumarol, 1946, 145: 453
vitamin K and in eviscerated rats, 1950, 161: 199
vitamin K absorption, 1941, 135: 137
- PROUTT, LEAH M.: *see* SMITH, D. C.
- PROVISUAL RED
preparation and properties of, 1946, 145: 561
- PRYOR, W. W.: *see* ATWELL, R. J.
- PSEUDOPREGNANCY
acetylcholine-equivalent of uterus, 1939, 127: 343
adrenalectomy, 1951, 167: 593
copper-induced, 1942, 135: 587; 1943, 139: 135
induction and inhibition of, 1950, 161: 522
- PSYCHOLOGICAL TESTS
high CO₂ in man, 1947, 151: 479
- PSYCHOMOTOR PERFORMANCE
alveolar air composition, 1946, 146: 211
cold, 1946, 146: 78
diet and times of eating, 1946, 146: 90
exposure to cold, 1946, 146: 552
on restricted and supplemented diet, 1947, 148: 624
restricted B vitamins, 1945, 144: 13; 1946, 147: 44
- PTERIDINES
2-amino-4-hydroxy-6-methyl—, bone marrow cultures, 1948, 152: 654
2-amino-4-hydroxy-7-methyl—, bone marrow cells, 1948, 153: 496
cell proliferation, 1948, 153: 488
neoplastic cell culture, 1948, 153: 493
2-amino-4-hydroxy-6-carboxylic acid, bone marrow cultures, 1948, 152: 654
human bone marrow cells, 1948, 153: 496
neoplastic cell culture, 1948, 153: 492
- PTEROIC ACID
bone marrow cultures, 1948, 152: 654; 1948, 153: 496
cell proliferation, 1948, 153: 490
- PTEROYLDIGLUTAMYL GLUTAMIC ACID
cell proliferation, 1948, 153: 490
- PTEROYLGLUTAMIC ACID: *see* FOLIC ACID
- PUBERTY
gonadotropic content of hypophysis, 1939, 125: 398; 1939, 127: 629
- PUGH, E. J.: *see* HAIST, R. E.
- PULMONARY ARTERIES
occlusion of, 1951, 164: 254
pressure in, 1939, 125: 130
acute anoxia, 1947, 150: 316
lung lymph flow, 1942, 136: 214
maximum, in normal males, 1946, 146: 165
- PULMONARY DISEASE: *see* LUNGS, disease
- PULMONARY VEINS
lesions in, following thiamin deficiency, 1945, 144: 412
pressures in, 1939, 125: 130
- PULMONARY VENTILATION
adrenaline, 1940, 129: 157; 1942, 137: 485
at high altitudes, 1947, 150: 204
chloralose anesthesia, 1941, 131: 563
during acclimatization to high altitude, 1947, 149: 570
during anoxia, 1943, 138: 660
hypoxemia, 1941, 132: 426
in exercise, 1944, 142: 204
oxygen consumption, 1942, 138: 17
sex, 1942, 137: 320
lymph flow, 1942, 136: 210
pH of blood and urine, 1941, 132: 272
positive pressure breathing, 1946, 146: 169
- PULSE
alpha waves of tips of fingers and toes, 1942, 136: 448
anacrotic, of aortic stenosis, 1940, 131: 432
blood flow, 1946, 145: 720
contour, cyclopropane, 1939, 128: 240
contour method, for calculating cardiac output, 1949, 159: 379
femoral arterial, in hemorrhagic shock, 1947, 150: 275
peripheral in aortic stenosis, 1940, 131: 432
product, changes immediately before fainting, 1945, 143: 14
tardus, of aortic stenosis, 1940, 131: 432

PULSE

- temperature, 1943, 140: 257
- transformation of, 1949, 158: 287
- transmission of and blood cell concentration, 1947, 149: 316
- traumatic shock, 1943, 140: 199
- volume, of arteries of hand, 1941, 134: 62
 - photoelectric recording of, 1940, 130: 177
- wave, arterial, velocity of propagation, 1945, 144: 521
 - in coarctation of the aorta, 1948, 152: 554
 - transmission time at various pressures, 1947, 148: 16

PULSE PRESSURE

- central, measurement of, 1947, 148: 17
- changes immediately before fainting, 1945, 143: 14
- general characteristics of central and peripheral, 1947, 150: 274
- kidney function, 1951, 167: 689
- normal for dog, 1940, 128: 711
- optical recording of, during hemorrhage, 1947, 150: 275
- patterns of, 1944, 141: 237
- vascular factors in, 1938, 123: 644

PULSE RATE

- acceleration, 1948, 152: 157
- acclimatization, 1946, 146: 339
 - to high altitude, 1947, 149: 570
- air temperatures, 1946, 146: 515
- altitude, 1947, 148: 141
- anoxia anoxia, 1943, 140: 295
- at rest, training, 1942, 136: 150
- B vitamin deficiency, 1942, 136: 770
- carotid sinus pathways, 1947, 150: 722
- carotid sinus reflex, 1947, 150: 712
- changes immediately before fainting, 1945, 143: 14
- CO₂ breathing, exercise, hyperventilation, 1947, 149: 43
- cooling, 1948, 155: 360
- dibenzamine and, in hemorrhage, 1950, 161: 116
- dry heat, 1943, 139: 586
- exercise, 1939, 125: 614
 - at high altitude, 1947, 148: 157
 - polycythemia, 1947, 148: 157
- explosive decompression, 1946, 147: 289
- extreme cold, 1947, 149: 209
- fasting, 1951, 166: 301
- high CO₂, 1947, 151: 489
- hyperthyroidism, 1943, 138: 370
- ingestion of carbohydrate, 1941, 133: 687
 - of large quantities of water, 1942, 136: 112
- large doses of insulin, 1939, 128: 127
- long term acclimatization to heat, 1947, 148: 88
- oxygen tension, 1947, 149: 277
- phosgene poisoning, 1946, 147: 329
- physical efficiency and on B vitamin restriction, 1946, 147: 41
- skin temperature, PSR during exercise, 1946, 147: 7
- step-up exercise, 1946, 145: 521
- tipping, 1946, 147: 661

- tourniquet shock, 1945, 144: 495
- vascular resistance in hemorrhagic shock, 1946, 147: 685
- work, acclimatization to heat, 1943, 140: 322
 - after training, 1946, 146: 425
 - sodium chloride, 1943, 140: 441

PULSE-RATIO TEST

- insomnia, 1942, 138: 66

PUND, E. R.: *see* HAMILTON, W. F.

PUPIL

- adrenotropic receptors in, 1948, 153: 590
- diameter, adrenaline, acetylcholine, 1941, 133: 106
 - contraction, genetic variability in, 1951, 166: 21
 - dilatation and anoxia, 1945, 143: 282
 - monochromatic light, 1942, 137: 769
- dilatation and acid metabolites, 1945, 143: 288
- eserine, 1950, 160: 474
- pilocarpine, 1950, 160: 467
- reciprocal innervation of muscle, 1938, 122: 160
- reflex motor activity, 1940, 131: 144

PUPILLARY CONSTRUCTOR REFLEX

- acetylcholinesterase of retina, 1947, 148: 42
- thiamin deficiency, 1944, 141: 446

PYLORIC DIAGRAM

- as measure of gastric evacuation and sphincter motility, 1942, 137: 234

PYLORUS

- inhibition by fat digests, 1941, 134: 804
- motility and gastric evacuation, 1942, 137: 234
- removal, gastric secretion, 1950, 163: 38
- respiration at high oxygen pressure, 1945, 145: 215
- sphincter motility, 1942, 137: 234
- spontaneous motility of, 1938, 121: 350
- tonus and respiration at high oxygen pressure, 1945, 145: 211

PYRAMIDAL TRACTS

- lesions of and conditioned reflexes, 1951, 166: 176

PYREXIN

- non-bacterial pyrogen, 1949, 159: 520

PYRIBENZAMINE

- blood pressure, 1951, 164: 70
- blood sugar level in radiation syndrome, 1951, 165: 38
- nerve fiber, 1951, 164: 513
- potassium distribution, 1950, 163: 154
- reticulo-endothelial system, 1951, 164: 825

PYRIDOXINE

- deficiency, biotin deficiency, 1945, 144: 184
 - blood picture, 1946, 146: 727
 - blood regeneration, 1945, 143: 436
 - dietary protein level, 1946, 146: 724
 - iodide metabolism in, 1951, 167: 576
 - water metabolism in, 1951, 166: 538
- excretion of, on normal and restricted diets, 1947, 149: 145
- factor W in nutrition of dogs, 1939, 128: 102
- fibrillation, atrophy of denervated muscle, 1942, 135: 750
- of body fluids, 1946, 147: 47
- of urine, blood, and feces, 1947, 148: 624
- radiation injury, 1950, 163: 394
- requirement during hyperthyroidism, 1942, 135: 475

- resistance to reduced pressure, 1945, 145: 132
 specific dynamic action, 1947, 151: 342
 temperature and requirement for, 1947, 149: 376
 thrombin, enzymatic inactivation of, 1950, 162: 665
 work output of perfused muscle, 1944, 142: 269;
 1946, 146: 400
- PYRIFORM-AMYGDALOID AREAS**
 ablation and olfactory conditioned reflexes, 1941,
 132: 81
- PYRIMIDINES**
 liver regeneration, 1949, 157: 225
- PYROGALLOL**
 adrenaline oxidation by tyrosinase, 1942, 136: 67
 clotting time, 1945, 144: 450
- PYROGENS**
 injection of, gastric motility, 1942, 137: 22
 non-bacterial, 1949, 159: 520
 of urine, 1940, 129: 589
 separation from urogastrone, 1940, 129: 589
- PYRROLE**
 acetylcholine synthesis, stimulation, 1946, 147: 384
- PYRUVATE**
 acetylcholine sensitivity of muscle, 1946, 145: 420
 d-tubocurarine and oxidation of, 1947, 148: 510
 lactate ratio, altitude and various hormones, 1949,
 158: 360
 metabolism of, in brain tissue after anoxia, 1945,
 144: 334
 of blood, after glucose, and exercise in the diabetic
 1949, 156: 92
 altitude, various hormones, 1949, 158: 360
 contribution of various organs, 1947, 148: 325
 gravity shock, 1944, 141: 166
 hemorrhage, 1945, 143: 580
 hemorrhagic and traumatic shock, 1947, 149:
 54
 restricted B vitamins, 1945, 144: 11
 shock, 1945, 145: 97
 sodium benzoate, 1944, 140: 553
 starvation and dehydration, 1947, 148: 603
 tourniquet shock, 1946, 147: 66
 of brain, carbon dioxide, 1949, 158: 478
 of urine, blood, and feces, diet, 1947, 148: 624
 oxygen consumption when substrate, 1941, 135: 183
 R.Q. of, in brain, 1939, 125: 603
 substrate for perfused rat heart, 1949, 158: 273
 for smooth muscle activity, 1951, 167: 391
 utilization by cardiac muscle, 1949, 158: 251
 in diabetic heart, 1949, 158: 262
- Q_{O₂}: see OXYGEN CONSUMPTION**
- QUADRICEPS MUSCLES**
 re-innervation of, 1945, 144: 481
- QUADRICEPS REFLEX**
 muscle pain and, in decerebrate cats, 1945, 144: 259
- QUAIFE, MARY L.: see DJU, MEI Y.**
- QUASTLER, H., LANZL, ELIZABETH F., KELLER, MIL-
 DRED E. and OSBORNE, J. W.** Radiation death,
 1951, 164: 546
- QUICK, A. J.** Calcium and prothrombin in blood clot-
 ting, 1947, 148: 211
 — Calcium in the coagulation of blood, 1940, 131:
 455
 — Constitution of prothrombin, 1943, 140: 212
 — Normal antithrombin and its relation to heparin,
 1938, 123: 712
 — Prothrombin complex, 1947, 151: 63
 — Prothrombin in blood of various species, 1941,
 132: 239
 — and COLLENTINE, G. E. Vitamin K and synthesis
 of prothrombin, 1951, 164: 716
 — and FAVRE-GILLY, J. E. Fibrin and prothrombin,
 1949, 158: 387
 — and STEFANINI, M. Thrombin and the labile
 factor, 1950, 160: 572
 —, OTA, R. K. and BARONOFKY, I. D. Thrombo-
 penia of anaphylactic and peptone shock, 1946,
 145: 273
 — See HONORATO, R.
 — See STEFANINI, M.
- QUIGLEY, ELLEN: see KOCHAKIAN, C. D.**
- QUIGLEY, J. P. and MESCHAN, I.** Pyloric sphincter
 inhibition by fat digests, 1941, 134: 803
 — and READ, M. R. Gastric evacuation and pyloric
 sphincter motility, 1942, 137: 234
 —, READ, M. R., RADZOW, K. H., MESCHAN, I.
 and WERLE, J. M. Hydrochloric acid and
 gastric activity, 1942, 137: 153
 —, WERLE, J., LIGON, E. W., JR., READ, M. R.,
 RADZOW, K. H. and MESCHAN, I. Fats and
 activity of the stomach, 1941, 134: 132
 — See BRODY, D. A.
 — See MESCHAN, I.
 — See WERLE, J. M.
- QUIMBY, F. H.** Caloric restriction and blood com-
 ponents, 1947, 151: 525
 — Recovery from starvation, 1951, 166: 566
 —, PHILLIPS, N. E., CARY, B. B. and MORGAN, R.
 Body temperature at low pressure, 1950, 161:
 312
 —, PHILLIPS, N. E. and WHITE, I. U. Inanition and
 BMR, 1948, 154: 188
 — See PHILLIPS, N. E.
- QUINACRINE**
 energy-rich phosphates, cardiodynamics in heart-
 lung preparation, 1947, 150: 739
- QUINIDINE**
 auricular pressures after, 1948, 155: 336
 congestive heart failure produced with, 1948, 155:
 336
 denervated muscle, 1943, 140: 248
 experimental hypertension, 1948, 155: 114
 fibrillation, atrophy of denervated muscle, 1942, 135:
 749
 glycogen metabolism of denervated muscle, 1943,
 138: 360
 oxygen consumption, 1942, 136: 387
 renal hyperemia with, 1947, 148: 686
 sympatholytic effects of, 1950, 160: 212
 ventricular fibrillation from electric shock, 1951,
 165: 185

- QUININE**
 absorption from alimentary tract, 1942, 135: 334
 acetylcholine formation, 1939, 127: 381
 acetylcholine response of denervated muscle, 1940, 131: 216
 activity of adenosine-triphosphatase, 1948, 152: 90
 experimental hypertension, 1948, 155: 114
 fibrillation and atrophy of denervated muscle, 1942, 135: 749
 renal hyperemia with, 1947, 148: 686
 skeletal muscle, 1940, 131: 228
 sympatholytic effects of, 1950, 160: 212
- QUINOLINE**
 muscle sensitivity to acetylcholine and potassium, 1946, 145: 611
 nerve conduction, 1950, 163: 197
- QUINONE**
 tubular secretion of phenol red, 1950, 161: 263
- QUINTANILLA, R., KRUSEN, F. H. and ESSEX, H. E.**
 Treatment of frost-bite, 1947, 149: 149
- R.** Q.: *see* RESPIRATORY QUOTIENT
- R. T. F.:** *see* RESPIRATORY TRACT, fluid
- RAAB, W.** Sympathomimetic substance in brain tissue, 1948, 152: 324
 — and HUMPHREYS, R. J. Secretory function of sympathetic neurones, 1947, 148: 460
 — and MAES, J. P. Sympathectomy and epinephrine in tissues, 1947, 148: 470
- RABBIT (studies of—in)**
 acceleration, 1946, 146: 39; 1948, 153: 66
 acetylcholine, 1939, 127: 343; 1940, 131: 240; 1941, 132: 588; 1941, 133: 106; 1945, 144: 190; 1946, 145: 478
 adrenalectomized, 1938, 123: 752
 adrenals, 1940, 131: 210
 adreno-cortical hormones, 1940, 128: 731; 1942, 137: 427; 1942, 137: 611; 1951, 164: 294
 anoxia, 1940, 129: 610; 1940, 130: 261; 1940, 130: 450; 1941, 134: 284; 1941, 135: 249; 1942, 137: 611; 1944, 140: 611; 1945, 145: 192; 1946, 147: 78; 1950, 161: 573; 1950, 162: 88; 1950, 163: 125
 anterior pituitary hormones, 1938, 121: 157; 1938, 121: 633; 1944, 142: 116
 antigonadotropins, 1947, 148: 700; 1950, 162: 393
 arterio-venous anastomoses, 1948, 152: 48
 basal metabolism, 1939, 125: 155; 1940, 131: 317
 blood clotting, 1950, 161: 505; 1950, 162: 632
 blood constituents, 1938, 122: 574; 1940, 130: 340; 1940, 131: 317; 1941, 132: 327; 1943, 139: 35; 1944, 140: 600; 1947, 150: 239; 1949, 159: 47; 1950, 162: 289; 1950, 162: 709; 1950, 163: 79; 1951, 167: 233
 blood picture, 1944, 142: 180; 1949, 158: 396
 blood pressure, high, 1940, 129: 562; 1940, 130: 1; 1940, 130: 29; 1943, 138: 391; 1944, 142: 666; 1948, 153: 344; 1949, 158: 433; 1949, 158: 438; 1950, 162: 385; 1951, 164: 630
 blood sugar, 1938, 124: 279; 1939, 125: 551; 1940, 129: 610; 1940, 130: 249; 1945, 143: 278; 1949, 158: 38; 1949, 158: 40; 1951, 164: 207; 1951, 165: 66; 1951, 167: 359
 body temperature, 1947, 149: 662
 body water and extracellular fluid, 1942, 135: 435; 1948, 153: 66; 1950, 162: 695; 1950, 163: 224; 1951, 167: 485
 bone marrow, 1940, 128: 455; 1940, 131: 176; 1940, 131: 768; 1941, 135: 249; 1945, 145: 73
 brain, 1938, 122: 207; 1939, 125: 551; 1941, 132: 588; 1942, 137: 179; 1947, 150: 27; 1948, 155: 56; 1949, 157: 122; 1949, 157: 283; 1950, 162: 293
 capillary permeability, 1942, 137: 427; 1946, 147: 237; 1951, 164: 294
 chemical mediators in aqueous humor, 1938, 124: 271
 chemoreceptors and oxygen saturation, 1951, 164: 226
 chloride, 1939, 127: 338; 1941, 134: 87
 cholinesterase, 1941, 132: 588; 1948, 155: 56
 circulation, 1950, 160: 511; 1950, 160: 522; 1951, 165: 293
 circulatory and respiratory reflexes in tipping, 1946, 147: 661
 connection between gall bladder and liver lymphatics, 1941, 133: 80
 continuous perfusion of ear, 1950, 162: 280
 convulsions with DFP, 1949, 156: 117
 crossed phrenic phenomenon, 1941, 134: 102
 diabetic, utilization of ketone bodies, 1940, 130: 145
 distribution of blood in kidney, 1950, 163: 676
 electroencephalogram, 1939, 125: 551
 epinephrine, 1940, 131: 281; 1941, 133: 106; 1945, 143: 135; 1948, 152: 609; 1949, 159: 457; 1950, 162: 231; 1950, 162: 280; 1951, 164: 400; 1951, 165: 66
 erythrocytes, 1949, 158: 81; 1950, 162: 610
 estrogens, 1938, 121: 98; 1939, 125: 31; 1940, 131: 200; 1940, 131: 422; 1944, 142: 327; 1950, 162: 406; 1951, 165: 672
 excretion of urinary 17-ketosteroids, 1948, 152: 615
 fatigue of depressor reflex, 1944, 142: 350
 fever and CO₂, 1949, 158: 16
 gastrointestinal tract, 1938, 124: 505; 1939, 127: 301; 1940, 128: 605; 1940, 130: 450; 1940, 130: 642; 1945, 143: 563; 1945, 145: 211; 1947: 148: 350; 1947, 149: 498; 1948, 154: 348; 1950, 160: 115
 heart, 1943, 138: 529; 1943, 139: 550; 1945, 143: 135; 1945, 144: 190; 1949, 156: 285; 1949, 158: 280; 1949, 159: 467
 heat and dehydration, 1947, 151: 564
 high oxygen, 1944, 142: 379; 1944, 142: 468; 1945, 145: 211
 histamine, 1940, 130: 319; 1941, 131: 768; 1941, 132: 327; 1941, 132: 552; 1942, 135: 375; 1946, 146: 58; 1949, 159: 332; 1951, 167: 233
 hyperparathyroidism, 1939, 125: 742
 hypothermia, 1944, 141: 404; 1946, 146: 263; 1950, 160: 285; 1951, 166: 77
 insulin, 1940, 130: 524; 1940, 131: 281; 1944, 140: 600; 1945, 143: 278; 1947, 150: 48; 1951, 166: 159

- kidney, 1938, 123: 281; 1938, 123: 625; 1939, 128: 162; 1940, 128: 675; 1943, 139: 510; 1944, 141: 436; 1946, 146: 58; 1947, 150: 527; 1947, 150: 534; 1949, 158: 438; 1950, 160: 1; 1950, 161: 250; 1950, 161: 259; 1950, 162: 168; 1950, 163: 655; 1951, 164: 624; 1951, 165: 113; 1951, 167: 541
 lactation, 1947, 150: 395
 liver, 1938, 121: 209; 1940, 128: 731; 1940, 130: 249; 1940, 131: 522; 1944, 140: 600; 1951, 166: 113
 metabolism, in vitro, 1940, 131: 522; 1941, 131: 586; 1945, 144: 190; 1948, 153: 351; 1951, 165: 113; 1951, 166: 113
 muscle, 1947, 150: 490; 1950, 162: 88
 constituents, 1938, 121: 311; 1944, 142: 379; 1945, 145: 87; 1946, 145: 573; 1946, 145: 584; 1946, 146: 498; 1951, 166: 424; 1951, 167: 298; 1951, 167: 386
 innervation, 1938, 122: 160; 1945, 144: 477; 1947, 150: 670; 1947, 151: 96
 nerves, 1938, 123: 326; 1938, 123: 388; 1939, 127: 602; 1943, 139: 745; 1946, 147: 78; 1947, 148: 174; 1948, 153: 586; 1951, 166: 142
 one-stage evisceration, 1951, 164: 630
 ovulation, 1939, 125: 486; 1942, 137: 637; 1944, 142: 487
 pantothenic acid, 1941, 135: 69
 phosphatases, 1949, 156: 396
 pituitary gland, 1938, 124: 314; 1939, 127: 521; 1939, 128: 57; 1940, 128: 509; 1940, 129: 724; 1940, 130: 340; 1940, 131: 247; 1942, 137: 143; 1944, 142: 116
 placenta, 1939, 127: 343; 1941, 134: 344; 1947, 149: 123
 polycythemia, 1941, 134: 219; 1942, 137: 699; 1944, 142: 173; 1949, 156: 158; 1951, 167: 59
 potassium, 1941, 135: 93; 1941, 135: 151; 1950, 163: 622; 1950, 163: 655; 1951, 165: 113
 pregnancy, 1938, 121: 98; 1938, 124: 484; 1939, 125: 31; 1939, 126: 234; 1940, 128: 653; 1940, 131: 291; 1947, 148: 77; 1947, 151: 373
 pressor paths not blocked by TEA, 1950, 163: 290
 protein of pericardial fluid, 1940, 129: 637
 pyrogen fever, 1949, 159: 511; 1950, 161: 528
 rapid decompression, 1946, 147: 289
 rectal temperature, 1939, 125: 521
 renal function, 1938, 124: 279; 1947, 150: 523; 1948, 153: 458; 1948, 154: 220; 1949, 157: 31
 respiration, 1938, 121: 242; 1938, 124: 535; 1942, 138: 13; 1943, 138: 566; 1944, 140: 467; 1947, 149: 24; 1947, 149: 662; 1947, 150: 76; 1950, 163: 111
 reticulo-endothelial system, 1951, 164: 823
 shock, 1944, 141: 166; 1945, 143: 97; 1945, 143: 442; 1947, 149: 240; 1947, 149: 369; 1951, 165: 541
 skin temperature, 1941, 131: 710
 snake venom, 1941, 132: 552; 1942, 135: 375; 1949, 158: 81; 1950, 161: 562
 sodium, 1941, 132: 219
 spermatozoa, 1939, 125: 573; 1941, 132: 791
 sphincter mechanism of liver, 1941, 132: 713
 splenectomy and hemoglobin, 1938, 122: 574
 sulfa drugs, 1942, 136: 494; 1943, 139: 197
 sympathetic nervous system, 1939, 125: 155; 1940, 128: 588; 1941, 133: 720; 1941, 135: 45; 1942, 135: 759
 temperature changes in heart, 1949, 156: 285
 tetrathionate poisoning and prophylaxis, 1946, 147: 125
 thirst and its inhibition, 1950, 161: 374
 thrombin, prothrombin, 1939, 125: 297; 1941, 132: 242; 1945, 143: 358; 1947, 150: 411; 1948, 154: 136; 1948, 155: 394; 1950, 162: 289; 1951, 165: 195
 thromboplastin, 1942, 137: 179; 1947, 149: 213; 1947, 150: 381; 1950, 162: 293
 thyroid, 1938, 121: 620; 1939, 126: 234; 1940, 131: 317; 1941, 134: 550; 1950, 162: 289
 toe spreading reflex, 1942, 137: 247
 treatment of frost-bite, 1947, 149: 149
 uterus, 1938, 123: 752; 1939, 127: 343; 1940, 128: 372; 1940, 128: 653; 1940, 130: 290; 1941, 131: 586; 1943, 139: 178; 1947, 148: 77; 1950, 160: 46
 vagus, 1938, 124: 535; 1942, 138: 13; 1947, 149: 24
 venous circulation of liver, 1949, 158: 305
 vitamin A reserves, 1938, 123: 695; 1940, 131: 210
 vitamin E deficiency, 1944, 141: 242
 x-ray injury, 1950, 161: 505; 1951, 164: 823
RACCOON
 blood sugar and body temperature, emotional excitation, 1939, 125: 731
 vitamin A reserves of, 1938, 123: 695
RACIAL FACTORS: see HEREDITY
RADIATION (HEAT)
 exchange and regulation, 1940, 131: 79
 skin temperature, 1938, 124: 54
RADIATION SYNDROME (IONIZATION)
 blood plasma composition in, 1951, 165: 27
 changes in blood plasma during, 1950, 162: 703
RADIKE, A. W.: see THATCHER, J. S.
RADIO WAVES
 high frequency, biological effects, 1946, 147: 281
RADIO-KRYPTON: see KRYPTON (RADIOACTIVE)
RADMAN, H. M.: see RUBINSTEIN, H. S.
RADON
 elimination from blood stream by lungs, 1941, 133: 88
RADZOW, K. H.: see GREEN, H. D.
 — See QUIGLEY, J. P.
RAFFINOSE
 penetration into aqueous humour, 1942, 137: 423
RAGAN, C., FERREBEE, J. W., PHYFEE, P., ATCHLEY, D. W. and LOEB, R. F. Syndrome of polydipsia and polyuria, 1940, 131: 73
RAHN, H. Alveolar air studies, 1949, 158: 21
 — and OTIS, A. B. Alveolar air during simulated flights to high altitudes, 1947, 150: 202
 — and OTIS, A. B. Respiratory acclimatization to altitude, 1949, 157: 445
 —, OTIS, A. B., CHADWICK, L. E. and FENN, W. O. Pressure volume diagram of thorax and lung, 1946, 146: 161

- RAHN, H. *See* FENN, W. O.
 — *See* OTIS, A. B.
 RAISZ, L. G.: *see* LADD, M.
 — *See* LUDEMANN, H.
 — *See* RALLI, ELAINE P.
 — *See* WESSON, L. G., JR.
 RALLI, ELAINE P. and GRAEF, I. Adrenal alterations on filtrate factor-deficient rats, 1944, 140: 713
 — and RUBIN, S. H. Protein feeding and fatty liver after pancreatectomy, 1942, 138: 42
 —, RAISZ, L. G., LESLIE, S. H., DUMM, MARY E. and LAKEN, B. Antidiuretic substance in pitressin, 1950, 163: 141
 —, RUBIN, S. H. and PRESENT, CLARA H. Liver lipids after pancreatic duct ligation, 1938, 122: 43
 — *See* IRWIN, L.
 — *See* RUBIN, S. H.
 — *See* SHERRY, S.
 RALPH, P. H.: *see* FERGUSON, J. H.
 RALSTON, H. J. and KERR, W. J. Vascular responses of nasal mucosa to thermal stimuli, 1945, 144: 305
 — and TAYLOR, A. N. Streamline blood flow in arteries, 1945, 144: 706
 —, COLLINGS, W. D., TAYLOR, A. N. and OGDEN, E. Venous return in absence of cardiac drive, 1946, 145: 441
 —, INMAN, V. T., STRAIT, L. A. and SHAFFRATH, M. D. Mechanics of isolated voluntary muscle, 1947, 151: 612
 —, TAYLOR, A. N. and ELLIOTT, H. W. Streamline blood flow in arteries of cat, 1947, 150: 52
 RAM: *see* SHEEP, ram
 RAMEY, E. R., GOLDSTEIN, M. S. and LEVINE, R. Action of nor-epinephrine on blood pressure, 1951, 165: 450
 —, GOLDSTEIN, M. S. and LEVINE, R. Muscular fatigue, 1950, 162: 10
 — *See* GOLDSTEIN, M. S.
 RAMIREZ, A.: *see* LAWSON, H. C.
 RAMIREZ, H. P. R.: *see* SCOTT, J. C.
 RAMSEY, VIRGINIA W.: *see* FISCHER, E.
 RANA PIPIENS: *see* FROG
 RANDALL, L. I. and GRAUBARD, M. Adrenal lipids in pregnant rabbits, 1940, 131: 291
 RANDALL, W. C. Sweat gland activity, 1946, 147: 391
 — Sweating responses to locally applied radiant heat, 1947, 150: 365
 — Temperature regulation in birds, 1943, 139: 56
 — and HIESTAND, W. A. Panting and temperature regulation in chicken, 1939, 127: 761
 —, ALEXANDER, W. F., HERTZMAN, A. B., COX, J. W. and HENDERSON, W. P. Denervation and lumbar sympathectomy, 1950, 160: 441
 —, DOUGHERTY, ISABEL and DEERING, R. Skin sweating patterns, 1947, 151: 576
 — *See* HARRIS, A. S.
 — *See* HERTZMAN, A. B.
 — *See* HIESTAND, W. A.
 RANGES, H. A.: *see* SMITH, W. W.
 RANKIN, R. M.: *see* GELLHORN, A.
 RANNEY, R. E. and CHAIKOFF, I. L. Lipide metabolism in the bird, 1951, 165: 600
 —, CHAIKOFF, I. L. and DOBSON, E. L. Functional hepatectomy of unanesthetized fowl, 1951, 165: 588
 —, CHAIKOFF, I. L. and ENTENMAN, C. Formation of plasma phospholipides in bird, 1951, 165: 596
 RANSEEN, E. L.: *see* RYAN, A. H.
 RANSMEIER, J. C. and MCLEAN, F. C. Blood coagulation and calcium ion concentration, 1938, 121: 488
 RANSMEIER, R. E.: *see* BROOKS, V. B.
 RANSON, S. W.: *see* DEY, F. L.
 — *See* HARRISON, F.
 — *See* HETHERINGTON, A. W.
 — *See* PITTS, R. F.
 — *See* WANG, S. C.
 RAPOPORT, S. and WEST, C. D. Anions and chloride excretion, 1950, 162: 668
 — and WEST, C. D. Osmotic diuresis, 1950, 163: 175
 —, BRODSKY, W. A. and WEST, C. D. Renal osmotic work, 1949, 157: 357
 —, BRODSKY, W. A., WEST, C. D. and MACKLER, B. Dehydration and urine formation, 1949, 156: 433
 —, WEST, C. D. and BRODSKY, W. A. Osmotic diuresis, 1949, 157: 363
 — *See* KAPLAN, S. A.
 — *See* WEST, C. D.
 RAPPAPORT, DINA B.: *see* LAWSON, H. C.
 RAPPORT, D., CANZANELLI, A. and GUILD, RUTH. Conversion of hexose to pentose, 1950, 162: 421
 —, GUILD, RUTH and CANZANELLI, A. Transmission of shock producing factor in blood, 1945, 143: 440
 — *See* CANZANELLI, A.
 — *See* STEARNS, A. W., JR.
 RASHKIND, W. J.: *see* HOLT, J. P.
 RASHKIND, W. T. and MORTON, J. H. Cardiac output, 1949, 159: 389
 RAT (studies of—in)
 abdominal chemoreceptor, 1946, 147: 654
 acceleration, 1946, 146: 39; 1948, 155: 195
 acclimatization, 1944, 142: 466; 1950, 161: 359; 1951, 167: 261
 acetylcholine, 1939, 127: 381; 1944, 142: 512; 1949, 159: 247; 1950, 162: 469; 1950, 163: 605
 ACTH, 1944, 141: 394; 1949, 158: 45; 1949, 159: 426; 1949, 159: 433; 1950, 160: 217; 1950, 161: 534; 1951, 166: 165; 1951, 167: 569
 adrenal glands, 1938, 121: 650; 1939, 125: 644; 1940, 128: 577; 1940, 131: 281; 1941, 133: 623; 1943, 140: 102; 1944, 140: 713; 1946, 146: 133; 1947, 149: 305; 1949, 156: 365; 1949, 159: 154; 1949, 159: 264; 1950, 162: 5; 1951, 164: 16
 adrenalectomy, 1938, 121: 178; 1938, 122: 101; 1938, 122: 435; 1938, 124: 583; 1939, 126: 7; 1939, 126: 755; 1939, 127: 780; 1940, 130: 231; 1941, 131: 589; 1941, 132: 74; 1941, 133: 676; 1941,

- 134: 16; 1941, 134: 225; 1941, 134: 619; 1942, 136: 712; 1942, 137: 105; 1942, 137: 557; 1943, 139: 70; 1943, 139: 499; 1945, 143: 560; 1945, 144: 102; 1945, 144: 108; 1946, 145: 538; 1946, 147: 222; 1948, 152: 598; 1948, 153: 148; 1949, 156: 322; 1949, 159: 111; 1949, 159: 256; 1951, 164: 23; 1951, 165: 456; 1951, 165: 474; 1951, 167: 345; 1951, 167: 593
- adrenocortical hormones, 1938, 121: 537; 1938, 122: 16; 1938, 122: 302; 1938, 124: 369; 1938, 124: 583; 1938, 124: 627; 1939, 125: 68; 1939, 126: 148; 1939, 126: 368; 1940, 128: 552; 1940, 130: 298; 1940, 130: 539; 1941, 131: 783; 1941, 132: 670; 1941, 133: 503; 1941, 133: 511; 1941, 134: 16; 1942, 137: 653; 1943, 139: 460; 1943, 139: 499; 1944, 142: 191; 1945, 143: 550; 1945, 144: 652; 1947, 150: 424; 1948, 153: 226; 1948, 154: 465; 1948, 155: 128; 1948, 155: 290; 1949, 156: 368; 1949, 157: 99; 1949, 157: 241; 1949, 157: 418; 1949, 159: 256; 1950, 160: 83; 1950, 160: 217; 1950, 160: 490; 1950, 160: 499; 1950, 163: 96; 1950, 163: 326; 1951, 164: 690; 1951, 164: 770; 1951, 166: 171; 1951, 166: 504
- adrenotropic receptors, 1948, 153: 586
- age, 1938, 124: 612; 1938, 124: 620; 1939, 125: 603; 1940, 130: 332; 1942, 135: 388; 1942, 137: 477; 1943, 138: 671; 1943, 139: 49; 1945, 143: 298; 1946, 146: 591; 1948, 155: 355; 1948, 155: 366; 1950, 161: 540; 1951, 166: 75
- alarm reaction, 1938, 122: 347; 1939, 128: 226
- alkaline phosphatase, 1947, 149: 418; 1947, 150: 580; 1950, 163: 648
- altitude, 1943, 140: 374; 1943, 140: 387; 1945, 145: 130; 1949, 156: 53; 1950, 162: 37; 1951, 166: 394; 1951, 167: 261
- aluminum, 1938, 123: 640
- p-amino-benzoic acid and inositol, 1942, 136: 124
- ammonium pulmonary edema, 1949, 158: 1
- androgens, 1938, 121: 786; 1940, 129: 191; 1943, 140: 231; 1948, 154: 459; 1948, 155: 272; 1950, 160: 66; 1950, 162: 581; 1950, 163: 332; 1951, 165: 476
- anoxia, 1938, 121: 358; 1940, 130: 261; 1941, 134: 284; 1942, 135: 388; 1942, 137: 703; 1943, 140: 287; 1943, 140: 304; 1944, 140: 477; 1944, 141: 7; 1945, 143: 391; 1945, 143: 550; 1945, 144: 669; 1945, 144: 683; 1945, 145: 192; 1946, 146: 319; 1946, 146: 491; 1946, 147: 181; 1947, 149: 103; 1947, 150: 65; 1947, 151: 147; 1948, 155: 366; 1949, 156: 62; 1950, 161: 312; 1950, 161: 331; 1950, 162: 503; 1951, 167: 171
- anterior pituitary hormones, 1938, 122: 455; 1938, 124: 110; 1938, 124: 774; 1939, 125: 747; 1942, 135: 616; 1942, 136: 95; 1942, 136: 134; 1942, 137: 143; 1943, 140: 102; 1943, 140: 452; 1944, 141: 89; 1944, 141: 662; 1946, 147: 299; 1946, 147: 746; 1948, 152: 210; 1948, 152: 263; 1950, 160: 66
- anti-ulcer substances, 1947, 150: 754
- anticonvulsants, 1944, 141: 7
- antidiuresis, 1947, 148: 259
- antigonadotropic serum, 1942, 136: 293
- appetite, 1947, 151: 110; 1948, 155: 28; 1949, 158: 184
- arsenic, 1938, 124: 205; 1945, 143: 637; 1945, 143: 640; 1946, 145: 501
- artificial respiration, 1949, 156: 53
- basal metabolism, 1942, 137: 118; 1943, 139: 139; 1947, 149: 402; 1947, 151: 130
- benzene toxicity, 1945, 145: 158
- bicarbonate intake, 1951, 164: 369
- bile, 1939, 125: 425; 1942, 138: 71; 1949, 159: 343; 1950, 162: 575; 1950, 163: 688; 1951, 164: 274; 1951, 164: 786
- blood, amino acids, 1941, 132: 362; 1942, 136: 308; 1944, 142: 97; 1947, 148: 365; 1947, 150: 683; 1948, 154: 459; 1950, 163: 410
- constituents, 1938, 122: 359; 1939, 126: 755; 1947, 150: 678; 1950, 163: 79
- blood picture, 1938, 122: 590; 1938, 124: 620; 1944, 141: 356; 1947, 151: 525; 1950, 160: 75; 1950, 163: 96
- blood pressure, 1942, 137: 477; 1943, 138: 385; 1943, 139: 17; 1944, 141: 625; 1945, 143: 216; 1945, 143: 292; 1945, 143: 292; 1945, 143: 298; 1945, 143: 302; 1946, 146: 179; 1947, 148: 557; 1948, 155: 118
- high, 1938, 122: 140; 1939, 125: 587; 1940, 128: 563; 1940, 128: 716; 1943, 138: 385; 1943, 138: 587; 1943, 139: 293; 1944, 140: 627; 1944, 141: 389; 1944, 141: 394; 1944, 141: 707; 1945, 143: 122; 1945, 143: 179; 1945, 144: 331; 1946, 147: 471; 1947, 148: 557; 1947, 151: 373; 1948, 153: 226; 1948, 153: 344; 1949, 156: 244; 1949, 157: 241; 1950, 160: 32; 1950, 161: 448; 1950, 162: 189; 1950, 162: 368; 1950, 162: 375; 1950, 163: 190; 1951, 164: 68; 1951, 164: 73; 1951, 167: 457
- blood regeneration, 1944, 142: 604; 1945, 145: 54
- blood sugar, 1938, 121: 44; 1939, 125: 731; 1940, 130: 261; 1942, 136: 4; 1942, 137: 653; 1943, 139: 109; 1944, 140: 477; 1944, 141: 89; 1944, 141: 477; 1947, 150: 424; 1949, 157: 418; 1950, 163: 96; 1951, 164: 131; 1951, 165: 469
- blood volume, 1938, 122: 140; 1941, 134: 808; 1942, 135: 607; 1944, 141: 699; 1949, 156: 227
- body temperature, 1938, 122: 435; 1939, 125: 731; 1941, 133: 670; 1945, 143: 292; 1947, 149: 661; 1949, 156: 62; 1949, 156: 172; 1950, 160: 122; 1950, 161: 312; 1950, 163: 62
- see also hypothermia
- bone, 1941, 133: 617; 1942, 138: 27; 1945, 143: 413; 1945, 143: 677; 1945, 144: 634; 1946, 146: 591; 1946, 146: 600; 1946, 147: 522
- boron, 1943, 139: 233; 1944, 140: 513; 1945, 143: 385; 1947, 150: 520
- brain, 1942, 137: 703; 1943, 139: 446; 1944, 142: 512; 1949, 157: 287; 1949, 159: 247; 1950, 160: 187; 1950, 162: 469; 1951, 167: 119
- electrolytes, 1948, 152: 423; 1948, 155: 141; 1949, 156: 163; 1949, 156: 322; 1949, 156: 325; 1949, 157: 234; 1951, 164: 23
- oxygen consumption, 1939, 125: 603; 1941, 132: 294; 1942, 136: 601; 1945, 144: 683; 1948, 154: 73

Rat (studies of—in)

- bromine, 1941, 134: 107
 calcium, magnesium feeding, 1951, 166: 209
 calcium metabolism, 1951, 166: 387
 caloric restriction and inanition, 1946, 147: 228;
 1946, 147: 423; 1947, 148: 615; 1947, 150: 511;
 1947, 150: 553; 1947, 151: 525; 1948, 154: 188;
 1949, 158: 57; 1951, 167: 617
 capillaries and capillary permeability, 1944, 142:
 85; 1949, 156: 429; 1950, 162: 687
 carbohydrate metabolism, 1938, 122: 525; 1938, 122:
 547; 1940, 131: 252; 1941, 132: 446; 1941, 133:
 43; 1942, 136: 95; 1942, 136: 134; 1942, 136:
 136; 1942, 137: 557; 1943, 138: 357; 1943, 140:
 279; 1944, 142: 241; 1945, 145: 107; 1946, 146:
 491; 1947, 149: 489; 1947, 150: 400; 1947, 151:
 198; 1948, 152: 598; 1948, 153: 47; 1948, 153:
 393; 1948, 153: 606; 1949, 156: 361; 1949, 157:
 59; 1949, 159: 256; 1949, 159: 264; 1950, 160:
 506; 1950, 162: 416; 1951, 165: 474; 1951, 167:
 355
 carbon dioxide, 1949, 158: 119
 carotid-mandibular reflex in gasping, 1947, 150: 358
 castrated, 1939, 128: 213; 1942, 136: 136; 1946, 146:
 133; 1948, 155: 272
 cataract development, 1950, 161: 540
 chloride, 1941, 134: 86; 1941, 134: 87
 choline, 1947, 148: 557; 1950, 162: 189; 1950, 162:
 375; 1951, 164: 274
 cholinesterase, 1947, 148: 677; 1948, 154: 497; 1949,
 158: 72; 1950, 160: 187
 chromatin and liver mitosis, 1945, 143: 229
 citrate lithiasis, 1951, 167: 698
 cobalt and polycythemia, 1940, 130: 373; 1943, 139:
 401; 1945, 144: 464; 1948, 154: 513; 1949, 158:
 315; 1951, 164: 221; 1951, 166: 394
 cold, 1938, 121: 178; 1938, 122: 435; 1942, 136: 22;
 1947, 151: 221; 1948, 155: 355; 1948, 155: 366;
 1949, 156: 368; 1950, 161: 87; 1950, 163: 87;
 1951, 165: 481; 1951, 167: 651
see also temperature, environmental
 collection of fluid from single glomeruli and tubules,
 1941, 134: 562
 common duct, duodenum and pancreas, 1951, 165:
 630
 convulsions, 1942, 137: 653; 1947, 149: 135; 1948, 153:
 580; 1948, 154: 208; 1949, 156: 163; 1949, 156:
 322; 1949, 157: 234; 1950, 162: 503
 cysteine protection, 1951, 166: 15
 2,4-D, 1948, 155: 69
 decapitated head, 1944, 142: 154; 1945, 144: 658;
 1946, 146: 242
 decompression, 1946, 147: 289; 1947, 150: 607; 1950,
 160: 361; 1950, 162: 37; 1950, 162: 452
 dehydroascorbic acid, 1951, 165: 61
 diabetes, 1942, 137: 242; 1943, 138: 577; 1944, 141:
 466; 1947, 148: 185; 1947, 150: 400; 1948, 155:
 18; 1948, 155: 24; 1950, 161: 540; 1950, 161:
 545; 1950, 162: 1; 1950, 162: 416; 1951, 165:
 61; 1951, 165: 469
 alloxan, 1946, 145: 538; 1947, 150: 84; 1947, 151:
 581; 1948, 153: 417; 1949, 156: 100; 1951, 166:
 364
 insipidus, 1939, 126: 343; 1941, 132: 141
 diet, 1938, 121: 381; 1938, 122: 722; 1940, 128: 539;
 1942, 135: 393; 1942, 136: 746; 1943, 139: 147;
 1944, 141: 145; 1944, 142: 663; 1946, 146: 358;
 1946, 147: 13; 1948, 152: 460; 1948, 154: 489;
 1948, 154: 499; 1949, 157: 221; 1950, 161: 540;
 1950, 162: 131; 1950, 162: 368
 high fat, 1944, 140: 639; 1944, 142: 508; 1974, 148:
 47; 1947, 149: 201; 1947, 151: 530; 1947, 151:
 581
 dietary protein and amino acids, 1938, 121: 231; 1938,
 122: 533; 1938, 123: 526; 1939, 127: 589; 1941,
 135: 193; 1945, 144: 464; 1947, 148: 358; 1947,
 151: 342; 1947, 151: 399; 1949, 157: 141; 1950,
 161: 515; 1950, 162: 368; 1950, 163: 104
 diethylstilbestrol, 1942, 136: 136; 1942, 137: 557;
 1943, 138: 577; 1943, 139: 17; 1946, 145: 413
 drinking of sea water, 1943, 140: 25; 1950, 160: 291
 drowning, 1951, 167: 95
 EEG, 1942, 136: 4; 1946, 146: 559; 1951, 164: 16
 electrolyte metabolism, 1939, 127: 385; 1940, 128:
 440; 1940, 129: 264; 1940, 130: 747; 1945, 145:
 33; 1949, 156: 163; 1949, 156: 322; 1949, 156:
 325; 1949, 157: 234; 1950, 161: 278; 1951, 167:
 669
 embryo, metabolism of histamine and adenosine,
 1946, 147: 462
 epinephrine and adrenal medulla, 1938, 122: 347;
 1939, 126: 7; 1940, 130: 151; 1943, 138: 671;
 1945, 144: 71; 1946, 145: 456; 1949, 156: 361;
 1950, 160: 479; 1950, 162: 411; 1951, 164: 476
 ergotamine, 1948, 155: 64
 erythrocytes, 1941, 135: 93; 1949, 158: 72; 1951, 164:
 202; 1951, 164: 783; 1951, 165: 565
 estrogens, 1938, 121: 794; 1938, 122: 113; 1938, 122:
 175; 1939, 127: 192; 1939, 128: 213; 1940, 129:
 547; 1940, 130: 358; 1940, 131: 200; 1941, 134:
 143; 1946, 145: 467; 1946, 147: 522; 1947, 150:
 760
 ethanol and methanol oxidation, 1950, 163: 614;
 1950, 163: 619
 eviscerated, 1942, 136: 167; 1943, 140: 102; 1943,
 140: 279; 1944, 140: 639; 1944, 141: 477; 1945,
 144: 255; 1946, 146: 358; 1947, 149: 489; 1947,
 150: 424; 1947, 150: 683; 1948, 152: 598; 1949,
 156: 361; 1949, 157: 59; 1950, 160: 122; 1950,
 160: 248; 1950, 161: 199; 1951, 166: 349
 exchange rate from urine isotopes, 1951, 164: 159
 excretion of, 1941, 132: 185; 1948, 152: 302; 1951, 164:
 789
 exercise, 1941, 132: 801; 1941, 134: 761; 1951, 167:
 626
 extracellular fluid, 1939, 126: 406; 1945, 143: 521
 fatigue and solubility of myosin, 1947, 149: 177
 fatty liver, 1938, 122: 67; 1945, 144: 620; 1946, 147:
 348; 1951, 165: 628
 flavonoids and terminal vascular bed, 1951, 164: 391
 fluoride, 1939, 126: 715; 1941, 132: 707
 folic acid, 1944, 142: 604

- galactose, 1950, 163: 70
- gastric absorption of alcohol, 1948, 153: 268
- gastro-intestinal tract, 1938, 122: 67; 1939, 128: 176; 1941, 132: 636; 1942, 135: 526; 1945, 144: 609; 1947, 148: 94; 1947, 148: 382; 1948, 154: 348; 1949, 158: 119; 1951, 164: 263; 1951, 164: 812; 1951, 165: 375; 1951, 165: 628; 1951, 167: 399
- glomerular and tubular fluid, 1941, 134: 584
- glucose, ingestion, 1942, 135: 782; 1945, 144: 609; 1945, 145: 107
- intestinal absorption, 1941, 135: 188; 1942, 137: 105; 1942, 137: 242; 1946, 146: 610
- glutathione, 1951, 164: 770
- glycogen stores, 1940, 131: 522; 1941, 131: 783; 1941, 132: 662; 1941, 134: 799; 1942, 136: 746; 1943, 140: 452; 1946, 145: 471; 1947, 150: 65; 1950, 161: 545
- gonadotropins, 1938, 121: 364; 1938, 121: 765; 1938, 121: 794; 1938, 122: 319; 1939, 125: 396; 1939, 127: 192; 1939, 127: 629; 1939, 127: 650; 1941, 134: 143; 1943, 138: 241; 1944, 140: 563; 1945, 145: 181
- growth, 1940, 128: 360; 1940, 130: 672; 1941, 132: 362; 1942, 135: 616; 1942, 138: 180; 1943, 139: 499; 1944, 141: 89; 1944, 142: 97; 1945, 143: 431; 1945, 144: 363; 1946, 145: 501; 1948, 153: 432; 1951, 165: 491
- heart, 1940, 128: 608; 1943, 139: 49; 1945, 145: 16; 1946, 147: 477; 1947, 148: 692; 1949, 159: 154; 1950, 163: 268; 1951, 166: 273
- hemostasis, 1947, 148: 275
- histaminase, 1940, 130: 540
- histamine, 1938, 124: 412; 1939, 127: 780; 1940, 130: 540; 1941, 131: 589; 1941, 133: 623; 1945, 144: 102; 1951, 167: 271
- hypophysectomy, 1938, 121: 786; 1938, 122: 302; 1938, 122: 373; 1938, 122: 533; 1938, 122: 547; 1938, 123: 620; 1938, 124: 774; 1942, 135: 398; 1942, 135: 616; 1942, 137: 557; 1943, 139: 17; 1943, 139: 188; 1944, 140: 563; 1944, 141: 89; 1944, 141: 145; 1946, 146: 386; 1946, 146: 502; 1946, 147: 471; 1948, 155: 24; 1950, 163: 201; 1951, 164: 51
- hypothalamic lesions and obesity, 1942, 136: 609; 1942, 137: 746; 1943, 140: 89; 1946, 147: 695; 1946, 147: 715; 1946, 147: 717; 1946, 147: 727; 1946, 147: 735; 1950, 161: 35
- hypothermia, 1943, 140: 15; 1946, 146: 263; 1947, 149: 552; 1947, 151: 366; 1948, 155: 378; 1949, 156: 177; 1950, 161: 359; 1950, 163: 62; 1951, 166: 75; 1951, 166: 92
- see also* body temperature
- importance of salivary glands, 1938, 124: 612
- inflammation, 1951, 165: 554
- insulin, 1938, 121: 44; 1938, 121: 358; 1938, 124: 774; 1939, 126: 156; 1940, 131: 281; 1941, 134: 799; 1942, 135: 782; 1946, 146: 502; 1946, 147: 746; 1947, 149: 305; 1947, 149: 1947, 150: 683; 1948, 152: 267; 1949, 159: 111; 1950, 163: 70; 1951, 167: 176
- intestinal absorption, 1938, 121: 475; 1938, 124: 800; 1940, 128: 604; 1941, 134: 619; 1941, 135: 188; 1942, 136: 712; 1942, 137: 105; 1942, 137: 242; 1945, 143: 391; 1945, 144: 355; 1946, 146: 610; 1947, 148: 297
- iodine, 1941, 134: 550; 1941, 134: 623; 1944, 140: 671; 1951, 164: 35; 1951, 164: 783
- ion exchange resins, 1950, 160: 264
- iron metabolism, 1938, 121: 44; 1942, 137: 708; 1951, 166: 380; 1951, 166: 384
- irritants and hair growth, 1940, 129: 553
- islets of Langerhans, 1948, 152: 38
- ketosis, 1938, 122: 101; 1940, 130: 332; 1941, 134: 761; 1946, 145: 471; 1948, 152: 210
- kidney, 1938, 121: 107; 1938, 121: 189; 1938, 122: 296; 1940, 128: 747; 1943, 140: 279; 1943, 140: 387; 1944, 141: 389; 1944, 141: 394; 1944, 141: 433; 1944, 142: 241; 1946, 145: 681; 1946, 147: 165; 1947, 150: 580; 1948, 153: 47; 1948, 154: 489; 1949, 158: 149; 1950, 161: 259; 1950, 162: 368
- lactation, 1938, 122: 624; 1941, 134: 16; 1947, 150: 691
- leukocytes, 1948, 153: 148; 1951, 165: 554; 1951, 165: 559; 1951, 166: 524
- lipocaic, 1946, 147: 348
- lithium, 1950, 163: 633
- liver, 1942, 135: 398; 1945, 143: 450; 1946, 147: 746; 1949, 158: 305; 1950, 160: 41; 1951, 167: 581; regeneration, 1947, 151: 391; 1947, 151: 399; 1948, 152: 11; 1948, 152: 460; 1948, 153: 397; 1949, 157: 135; 1949, 157: 221; 1949, 157: 225; 1949, 159: 343; 1951, 164: 251
- liver arginase, 1943, 138: 439
- lung elasticity, 1951, 167: 113
- lymph, 1944, 142: 284; 1948, 152: 267; 1950, 160: 9; 1951, 164: 117; 1951, 164: 480; 1951, 166: 451
- magnesium, 1938, 121: 416; 1938, 121: 424; 1947, 149: 135; 1951, 166: 408
- manganese, 1943, 139: 233; 1943, 140: 72; 1944, 141: 648
- metabolism, 1938, 122: 113; 1938, 122: 373; 1938, 122: 435; 1939, 125: 747; 1940, 128: 552; 1940, 129: 126; 1943, 138: 328; 1943, 140: 102; 1944, 141: 91; 1944, 141: 662; 1946, 146: 440; 1946, 147: 717; 1946, 147: 727; 1949, 156: 62; 1949, 159: 33; 1950, 161: 295; 1951, 167: 314
- in vitro*, 1938, 122: 406; 1939, 127: 710; 1940, 130: 231; 1941, 132: 74; 1944, 142: 195; 1945, 143: 640; 1945, 144: 88; 1945, 144: 669; 1947, 148: 510; 1948, 153: 351; 1949, 157: 179; 1949, 158: 251; 1949, 158: 271; 1950, 163: 605
- method of perfusing carotid body of one rat with blood of similar animal, 1947, 150: 362
- micturition volume, 1943, 139: 532
- molybdenum, 1942, 137: 506
- muscle, 1939, 127: 385; 1940, 128: 450; 1940, 128: 523; 1940, 130: 151; 1940, 131: 156; 1941, 132: 801; 1945, 143: 560; 1945, 144: 437; 1947, 149: 7; 1948, 154: 63; 1949, 156: 328; 1949, 157: 429; 1949, 159: 6; 1950, 161: 142; 1950, 161:

- 406; 1950, 162: 10; 1951, 164: 239; 1951, 166: 480
- constituents, 1941, 134: 225; 1943, 138: 254; 1945, 143: 666; 1945, 145: 87; 1948, 152: 423; 1948, 155: 141; 1950, 163: 575; 1951, 164: 23; 1951, 164: 23
- denervated, 1939, 127: 605; 1939, 128: 97; 1943, 138: 357; 1943, 140: 115; 1943, 140: 247; 1944, 152: 222; 1945, 144: 278; 1946, 145: 450; 1946, 145: 587; 1948, 153: 109
- myoglobin and anoxemia, 1949, 156: 44
- nephrectomy, 1942, 136: 577; 1943, 138: 241; 1944, 141: 669; 1946, 147: 165; 1948, 153: 393; 1948, 155: 317; 1949, 158: 149
- nephrosclerosis, 1946, 147: 299
- nerve conduction, 1948, 155: 179
- nerve regeneration, 1944, 140: 616
- neuromuscular function, 1942, 137: 527; 1943, 139: 183; 1943, 139: 745; 1947, 151: 91; 1950, 161: 534; 1950, 162: 475; 1950, 163: 201
- neurotomy and muscle activity, 1951, 167: 656
- niacin, 1949, 159: 547
- nucleic acid, 1951, 164: 251
- number of glomeruli per kidney, 1943, 139: 510
- oxygen tension, high, 1944, 142: 466; 1945, 143: 210; 1945, 143: 656; 1949, 156: 177; 1949, 156: 182
- pantothenic acid, 1942, 135: 267; 1948, 153: 606
- parabiosis, 1939, 128: 169; 1943, 138: 587; 1943, 140: 231; 1945, 144: 652; 1945, 145: 182; 1947, 148: 185; 1950, 161: 56; 1950, 163: 297; 1951, 164: 26; 1951, 165: 341; 1951, 165: 343
- parathyroid, 1938, 122: 409; 1938, 122: 722; 1940, 128: 577; 1940, 131: 129; 1941, 133: 617; 1943, 139: 188; 1943, 139: 406; 1946, 147: 522; 1951, 165: 142
- perfusion, 1949, 158: 270
- pH and pHCL of tissues, 1946, 146: 4
- phlorizin glycosides, 1941, 134: 94
- phospholipid turnover, 1948, 155: 402
- pituitary extracts, 1939, 125: 644; 1939, 126: 148; 1940, 128: 552; 1940, 128: 747; 1941, 133: 623; 1942, 137: 544; 1948, 155: 18
- placenta, 1938, 124: 114; 1939, 128: 156; 1941, 134: 342; 1942, 135: 672
- plasma, 1947, 150: 729; 1951, 165: 27
- posterior pituitary hormones, 1939, 127: 521; 1940, 130: 403; 1941, 133: 511; 1944, 141: 389; 1949, 157: 59; 1950, 163: 141
- potassium metabolism, 1938, 121: 475; 1938, 122: 525; 1939, 127: 385; 1940, 128: 450; 1940, 130: 747; 1941, 132: 474; 1941, 132: 801; 1941, 135: 93; 1942, 136: 577; 1945, 143: 385; 1945, 143: 560; 1945, 144: 102; 1946, 145: 291; 1947, 149: 589; 1947, 150: 520; 1947, 151: 138; 1947, 151: 366; 1948, 152: 423; 1948, 153: 432; 1948, 155: 141; 1950, 162: 182; 1951, 164: 23; 1951, 164: 263; 1951, 166: 209; 1951, 166: 273; 1951, 167: 314; 1951, 167: 457
- pregnancy, 1938, 122: 86; 1938, 122: 455; 1938, 123: 589; 1947, 150: 691; 1947, 151: 373
- protein, of pericardial fluid, 1940, 129: 637
- protein metabolism, 1938, 123: 233; 1939, 126: 156; 1939, 126: 223; 1940, 128: 545; 1942, 136: 134; 1942, 137: 544; 1943, 138: 258; 1946, 147: 175; 1946, 147: 222; 1947, 150: 400; 1947, 151: 391; 1948, 154: 532; 1948, 155: 272; 1950, 160: 53; 1950, 160: 62; 1950, 162: 581; 1950, 163: 332; 1950, 163: 662
- prothrombin, 1939, 125: 297; 1942, 137: 510; 1945, 143: 239; 1945, 143: 358; 1946, 145: 456; 1948, 154: 136; 1949, 158: 311; 1950, 161: 199
- pseudopregnancy, 1942, 135: 587; 1943, 139: 135; 1950, 161: 522; 1951, 167: 586; 1951, 167: 593
- pyridoxine, 1945, 143: 434; 1950, 163: 394; 1951, 166: 538
- p-quinones, 1945, 143: 179
- renal clearance, 1947, 148: 387; 1947, 150: 341; 1947, 151: 192; 1947, 151: 211; 1948, 152: 27; 1948, 152: 30; 1948, 152: 31; 1948, 155: 282
- renal function, 1938, 121: 424; 1939, 125: 68; 1939, 125: 644; 1942, 137: 564; 1943, 140: 374; 1946, 146: 358; 1947, 151: 198; 1948, 154: 170; 1948, 155: 195; 1951, 165: 142
- renin, 1938, 124: 84; 1950, 162: 379; 1951, 166: 619
- reproduction, 1938, 121: 565; 1938, 122: 16; 1939, 126: 368; 1940, 129: 260; 1942, 137: 299; 1945, 144: 718; 1946, 146: 133; 1947, 150: 84; 1947, 150: 95
- resistance to hemorrhage, 1943, 140: 416
- to trauma, 1943, 138: 346
- respiratory pattern and volume, 1947, 150: 79
- response to menopause urine, 1938, 124: 174
- riboflavin and B₆ of tissues, 1945, 144: 76
- salt intake and excretion, 1938, 121: 185; 1939, 126: 343; 1946, 147: 340; 1948, 154: 163; 1949, 156: 233; 1949, 156: 244; 1951, 164: 73; 1951, 164: 369; 1951, 164: 690; 1951, 165: 128; 1951, 166: 524; 1951, 166: 619
- self-selection studies, 1938, 122: 734; 1941, 131: 639; 1943, 139: 70; 1945, 143: 344
- sex, 1947, 150: 691; 1951, 166: 364
- shay, preparation, 1947, 148: 382
- shock, 1943, 139: 460; 1944, 142: 191; 1945, 144: 437; 1945, 144: 661; 1945, 144: 674; 1945, 145: 33; 1946, 146: 265; 1946, 147: 66; 1946, 147: 155; 1946, 147: 175; 1946, 147: 446; 1947, 148: 541; 1947, 150: 249; 1947, 150: 428; 1949, 156: 317; 1950, 160: 83; 1951, 164: 91; 1951, 165: 532; 1951, 165: 540
- skin, 1942, 135: 393; 1943, 138: 408; 1946, 145: 437
- sodium metabolism, 1940, 128: 450; 1941, 132: 223; 1941, 134: 87; 1941, 134: 342; 1947, 148: 541; 1940, 162: 182
- specific dynamic action of fat, 1940, 131: 357
- spermatozoa, 1938, 122: 201; 1942, 137: 521
- spontaneous activity rhythms, 1944, 142: 633
- steroids, 1946, 147: 471; 1950, 160: 53
- storage of carbohydrate food, 1941, 132: 661
- stress, 1938, 122: 347; 1945, 143: 302; 1948, 152: 423; 1948, 155: 118; 1949, 159: 291; 1950, 162: 1; 1951, 165: 456
- tamed and untamed, 1943, 139: 261
- taste thresholds, 1940, 128: 294; 1941, 134: 158

- temperature, environmental, 1941, 133: 525; 1944, 141: 359; 1945, 144: 108; 1945, 144: 643; 1947, 151: 564
- temperature regulation, 1942, 137: 582; 1943, 139: 230; 1947, 149: 650; 1949, 156: 374
environmental, *see also* cold
- tetany, 1942, 137: 459
- thiamin, 1938, 122: 486; 1938, 124: 596; 1941, 132: 636; 1941, 133: 43; 1945, 143: 340; 1945, 144: 413; 1945, 144: 643; 1947, 148: 52; 1948, 153: 417
- thiourea and thiouracil, 1944, 141: 91; 1945, 143: 719; 1945, 144: 71; 1945, 144: 742; 1946, 146: 440; 1947, 149: 561; 1947, 151: 130; 1948, 153: 397
- thirst, 1950, 161: 374
- thymus, 1940, 130: 384; 1940, 130: 672; 1947, 151: 91
- thyroid, 1938, 122: 409; 1938, 122: 486; 1938, 122: 547; 1938, 124: 114; 1938, 124: 683; 1940, 131: 129; 1941, 133: 617; 1941, 134: 550; 1941, 134: 623; 1942, 135: 475; 1942, 137: 582; 1944, 140: 671; 1945, 144: 363; 1945, 145: 16; 1946, 145: 413; 1946, 145: 681; 1946, 146: 440; 1947, 148: 692; 1947, 150: 95; 1947, 150: 691; 1947, 151: 91; 1948, 152: 263; 1948, 155: 402; 1949, 156: 182; 1949, 156: 378; 1949, 157: 225; 1949, 159: 291; 1950, 163: 81; 1951, 164: 35; 1951, 167: 171
- toxicity of sea water, 1950, 163: 370
- typhoid vaccine, 1948, 153: 148
- uterus, 1938, 122: 602; 1938, 122: 624; 1939, 126: 164; 1940, 129: 547; 1940, 130: 290; 1944, 141: 365; 1951, 167: 599
- visible radiations, 1942, 137: 761
- vitamin A, 1941, 134: 114; 1942, 137: 213; 1945, 143: 450; 1947, 149: 402
- vitamin B₁₂ deficiency, 1950, 162: 714
- vitamin B-complex, 1938, 124: 683; 1939, 127: 199; 1944, 141: 85; 1948, 153: 31
- vitamin E, 1940, 131: 268; 1941, 132: 211; 1941, 132: 259; 1943, 138: 328; 1943, 139: 183; 1946, 147: 477; 1947, 148: 344
- vitamin K, 1939, 125: 429; 1944, 141: 359; 1950, 161: 199
- vitamins, 1942, 135: 475; 1944, 140: 713; 1945, 145: 54; 1945, 145: 130; 1947, 149: 254; 1947, 150: 553; 1950, 162: 131
- water balance, 1938, 121: 381; 1938, 122: 668; 1939, 126: 164; 1939, 127: 521; 1939, 127: 541; 1939, 128: 226; 1940, 128: 539; 1940, 130: 403; 1942, 135: 393; 1943, 140: 15; 1943, 140: 25; 1944, 141: 85; 1944, 142: 443; 1945, 144: 355; 1945, 144: 571; 1946, 145: 437; 1946, 146: 559; 1947, 149: 103; 1947, 150: 729; 1947, 151: 110; 1947, 151: 564; 1948, 155: 309; 1948, 155: 317; 1949, 156: 233; 1949, 156: 244; 1949, 156: 325; 1950, 160: 291; 1950, 161: 278; 1950, 161: 374; 1950, 162: 33; 1951, 166: 538; 1951, 166: 619
- weight gain, 1945, 143: 2
- wild Norway, captivity, 1950, 162: 5
- work, 1938, 122: 302; 1938, 123: 620; 1938, 124: 627; 1941, 133: 676; 1943, 139: 401; 1949, 156: 365; 1949, 157: 99; 1951, 165: 469; 1951, 165: 474; 1951, 166: 504
- x-irradiation, 1938, 122: 406; 1950, 161: 323; 1950, 163: 394; 1950, 163: 648; 1951, 165: 27; 1951, 165: 43; 1951, 165: 375; 1951, 166: 15; 1951, 166: 380; 1951, 166: 384; 1951, 167: 345; 1951, 167: 626
- xanthopterin, 1948, 152: 179; 1948, 153: 134
- zinc metabolism, 1938, 121: 44; 1938, 124: 750; 1938, 124: 753; 1945, 145: 28
- Zucker's weight-age relationship, 1948, 153: 35
- RAT COLONY
weight-age relationship in, 1948, 153: 35
- RATHER, L. J. Adrenals and cardiac hypertrophy, 1949, 159: 153
- RATTLESNAKE VENOM: *see* VENOM, snake
- RAU, F. A.: *see* COLBY, R. W.
- RAU, G. C. Age, body weight and blood hypertensinogen, 1949, 158: 401
- Blood hypertensinogen, 1949, 156: 454
- RAVDIN, I. S.: *see* GURD, F. N.
- See* RIEGEL, CECILIA
- RAVIN, A. Denervated muscle in relation to myotonia, 1940, 131: 216
- Effects of quinine on mammalian skeletal muscle, 1940, 131: 228
- RAVIN, H. A.: *see* PERSKY, L.
- RAWSON, A. J.: *see* STARR, I.
- RAWSON, RUTH A. Binding of T-1824 and other dyes by plasma proteins, 1943, 138: 708
- See* GREGERSEN, M. I.
- RAY, G. B. Reduction time of blood in skin capillaries, 1946, 147: 622
- , JOHNSON, J. R. and RAY, LOUISE H. Reduction time of blood after breath-holding, 1946, 147: 636
- , RAY, LOUISE H. and JOHNSON, J. R. Reduction time of blood in skin capillaries, 1946, 147: 630
- RAY, LOUISE H.: *see* RAY, G. B.
- RAYMOND, W. B.: *see* RISLEY, E. A.
- RBF: *see* RENAL BLOOD FLOW
- RE-INNervation: *see* INNervation, re-
REACTION TIME
body temperature, 1938, 121: 495
- READ, M. R.: *see* QUIGLEY, J. P.
- See* WERLE, J. M.
- READING
muscle contraction potentials during, 1942, 137: 1
- REBOUL, J. and ROSENBLUETH, A. A. C. and excitability of nerve, 1939, 125: 205
- See* ROSENBLUETH, A.
- RECEPTIVE FIELDS
definition of, 1940, 130: 690
of optic nerve fibers, 1940, 130: 690
- RECOVERY: *see* WORK, recovery
- RECRUITMENT
of mammalian nerve fiber, 1944, 141: 196
of nerve fibers, 1938, 121: 193
- RECTUM
nature of pressure in, 1946, 147: 242
reflex responses to distention of, 1938, 121: 32

RECTUS ABDOMINIS MUSCLE

acetylcholine and potassium sensitivity of, 1946, 145: 420; 1946, 145: 608
response to acetylcholine and CO₂, 1944, 142: 131
water content of, 1942, 135: 434

RED NUCLEUS

contribution to respiratory rhythmicity, 1939, 127: 659

REED, B. P.: *see* REED, C. I.

REED, C.: *see* POWERS, S.

REED, C. I. and REED, B. P. Properties of bone in anti-rachitic healing, 1942, 138: 34

— and REED, B. P. Vitamin D and x-ray-diffraction study of bone, 1945, 143: 413

— *See* BARTOLI, A.

— *See* BRISKIN, H. L.

— *See* JOSEPH, N. R.

— *See* KAPLAN, E.

— *See* MRAZEK, R. G., JR.

— *See* SCHILLER, A. A.

— *See* SILVER, ALENE F.

REED, E. A.: *see* SCOTT, J. C.

REED, RACHEAL K., SAPIRSTEIN, L. A., SOUTHARD, F. D., JR. and OGDEN, E. Nembutal and yohimbine in renal hypertension, 1944, 141: 707

— *See* PAGE, E. W.

REFLEX

activity, magnesium, 1940, 130: 295
of dorsal dilator, 1940, 130: 308
changes in bronchial calibre during respiration, 1940, 128: 276

in transplanted muscle, 1941, 132: 607
regulation of intestinal pressure, 1942, 135: 621
toe spreading, innervation of, 1942, 137: 247

REFLEXES

from heart and lungs, 1951, 165: 263
in respiration, 1941, 133: 694
in spinal shock, 1940, 129: 517
pulmonary proprioceptive, suppression during electrophrenic respiration, 1950, 163: 118
survival after somatic death, 1947, 148: 300
thiamin deficiency, 1944, 141: 444
thresholds, in man, 1947, 150: 231

REFRACTION

changes due to injection of fluids in vitreous humor, 1947, 150: 569

REFRACTORY PERIOD

of isolated heart muscle, 1951, 164: 589
of muscle, 1939, 128: 204
of nerve, cold, 1941, 134: 703

REGENERATION: *see* specific organ, tissue or system

REHABILITATION

after semi-starvation, heart function, 1947, 150: 158

REHFUSS, M. E.: *see* BEAMER, W. D.

— *See* BERK, J. E.

— *See* FRIEDMAN, M. H. F.

REHM, W. S. Electric current and gastric secretion and potential, 1945, 144: 115

— Electrical energy output of resting stomach, 1943, 139: 1

— Gastric secretions and electrical potentials, 1944, 141: 537

— Origin of gastric secretory electro-potential, 1946, 147: 69

— Positive injury potentials of the stomach, 1944, 140: 720

— and ENELOW, A. J. Thiocyanate and gastric function, 1945, 144: 701

— and HOKIN, L. E. Gastric potential and secretion of HCl, 1947, 149: 162

— and HOKIN, L. E. Stomach production of electrical energy, 1948, 154: 148

—, HOKIN, L. E., DE GRAFFENRIED, T. P., II, BAJANDAS, F. J. and COY, F. E., JR. Formation of HCl by the stomach, 1951, 164: 187

— *See* HOKIN, L. E.

— *See* LAWSON, H. C.

REICHEL, H.: *see* PICHOTKA, J.

REICHLIN, S.: *see* RONZONI, ETHEL

REICHMAN, S.: *see* SELLERS, E. A.

REID, J. T., WARD, G. M. and SALSBUURY, R. L. Blood glutathione in the bovine, 1948, 152: 633

—, WARD, G. M. and SALSBUURY, R. L. Phosphatase in semen, 1948, 153: 235

—, WARD, G. M. and SALSBUURY, R. L. Plasma phosphatase levels of bulls, 1948, 152: 280

REID, MARY E. Ascorbic acid excretion during healing, 1948, 152: 446

— and WHITE, W. C. Roentgenographic study of gastro-intestinal motility, 1948, 152: 455

REINECKE, R. M. Kidney as locus of fructose metabolism, 1944, 141: 669

— Kidney as source of glucose, 1943, 140: 276

— Metabolism of fructose by eviscerated rat, 1942, 136: 167

— and HAUSER, P. J. Renal glucogenesis, 1948, 153: 205

— and ROBERTS, S. Fasting and the blood sugar curve after evisceration, 1944, 141: 476

—, HOLLAND, C. R. and STUTZMAN, F. L. Homeostasis of extracellular potassium, 1949, 156: 290

—, RUDOLPH, G. G. and BRYSON, M. J. Glucogenic function of kidney, 1947, 151: 198

—, RUDOLPH, G. G., BRYSON, M. J. and SAMUELS, L. T. Renal glucogenesis, 1948, 153: 47

— *See* LEHMANN, A. L.

— *See* ROBERTS, S.

— *See* STUTZMAN, F. L.

REINEKE, E. P., STONECIPHER, W. D. and TURNER, C. W. Fat and carbohydrate metabolism of lactation, 1941, 132: 535

— *See* MAQSOOD, M.

— *See* MULLICK, D. N.

REINHARD, J. J. JR., GLASSNER, O. and PAGE, I. H. Hemorrhagic hypotension, 1948, 155: 106

— *See* LEWIS, LENA A.

— *See* BLOOM, B.

— *See* HUNGERFORD, G. F.

— *See* MARX, W.

REISER, R. Phospholipid ingestion in man, 1939, 126: 109

REISS, R. A. and DiPALMA, J. R. Congestive heart failure, 1948, 155: 336

— *See* DiPALMA, J. R.

- REISSMANN, K. R. Blood volume during altitude acclimatization, 1951, 167: 52
- RELAXATION PRESSURE: *see* LUNGS, relaxation pressure
- REMINGTON, J. W. Circulatory factors in adrenal crisis, 1951, 165: 306
- Stroke index and diastolic time, 1950, 162: 273
- and HAMILTON, W. F. Cardiac ejection and aortic pressure curve, 1945, 144: 546
- and HAMILTON, W. F., Cardiac ejection and pressure pulse, 1947, 148: 25
- and HAMILTON, W. F. Evaluation of the work of the heart, 1947, 150: 292
- , CARTLAND, G. F., DRILL, V. A. and SWINGLE, W. W. Bioassay of tissue extracts beneficial in hypertension, 1944, 140: 627
- , COLLINGS, W. D., HAYS, H. W., PARKINS, W. M. and SWINGLE, W. W. Response to renin after adrenalectomy, 1941, 132: 622
- , HAMILTON, W. F. and AHLQUIST, R. P. Cardiac systole and cycle relations, 1948, 154: 6
- , HAMILTON, W. F., BOYD, G. H., JR., HAMILTON, W. F., JR. and CADDELL, H. M. Dibenamine in hemorrhage, 1950, 161: 116
- , HAMILTON, W. F., CADDELL, H. M., BOYD, G. H., JR. and HAMILTON, W. F., JR. Cardiovascular responses to hemorrhage, 1950, 161: 106
- , HAMILTON, W. F., CADDELL, H. N., BOYD, G. H., JR., WHEELER, N. C. and PICKERING, R. W. Dibenamine in traumatic shock, 1950, 161: 125
- , HAMILTON, W. F. and DOW, P. Pulse wave velocity and stroke volume of beat, 1945, 144: 536
- , HAMILTON, W. F., WHEELER, N. C. and HAMILTON, W. F., JR. Cardiac output, 1949, 159: 379
- , NOBACK, C. R., HAMILTON, W. F. and GOLD, J. J. Estimation of stroke volume, 1948, 153: 298
- *See* EVERSOLE, W. J.
- *See* HAMILTON, W. F.
- *See* KLEINBERG, W.
- *See* PARKINS, W. M.
- *See* SWINGLE, W. W.
- RENAL ARTERIES
- constriction and kidney function, 1950, 163: 422
- exercise and blood flow in, 1940, 128: 341
- stimulation of nerves of, 1951, 167: 523
- RENAL BLOOD FLOW
- after denervation, 1942, 136: 39
- angiotonin, 1940, 130: 335
- anterior pituitary, 1942, 136: 584
- blood pressure, 1946, 147: 537; 1947, 150: 537; 1951, 167: 676
- by Fick Principle and bubble flow meter, 1950, 160: 547
- comparison of direct and indirect method, 1950, 163: 442
- denervated, filtration, 1942, 136: 38
- during renal nerve stimulation, 1950, 163: 442
- electrical stimulation, 1945, 145: 41
- emotional stress, 1949, 157: 31
- hemorrhagic shock, 1946, 145: 702
- hypertension, 1938, 122: 38; 1941, 134: 493; 1942, 135: 365
- in cortex and medulla, 1951, 167: 539
- in vivo and perfused, 1941, 133: 24
- measured by PAH after renal ischemia, 1945, 144: 401
- measurements in, 1942, 137: 342; 1951, 167: 539
- normal and following ischemia, 1946, 145: 376
- oxygen consumption of, 1945, 145: 340
- renal arterial pressure, 1951, 167: 676
- renin, 1940, 129: 699
- angiotonin, 1941, 135: 88
- testosterone, 1942, 137: 342
- transplanted kidney, 1938, 123: 383
- unilateral nephrectomy, 1938, 122: 611
- various substances, 1939, 166: 354
- vasoconstriction, due to electrical stimulation, 1945, 145: 41
- RENAL CLEARANCE (OF)
- adrenal insufficiency, 1939, 125: 633
- allantoin as measure of function, 1947, 151: 192; 1948, 155: 278
- amino acids, 1944, 140: 688
- as measure of function, 1948, 152: 27
- ascorbic acid, 1944, 142: 183
- blood flow, 1939, 126: 361
- carinamide, 1949, 159: 181
- creatinine, 1947, 151: 211
- essential amino acids, 1946, 146: 330; 1947, 149: 130; 1947, 151: 202
- ferrocyanide, 1950, 160: 325
- iopax, neoiopax and skioldan, 1938, 123: 720
- ischemia, 1945, 144: 395
- blood flow, 1946, 145: 376
- NaCl and KCl, 1944, 141: 425
- pantothenic acid, plasma concentration, 1946, 145: 634
- phosphate, parathyroid, 1942, 136: 716
- plasma level of injected material, 1947, 150: 340
- polyethylene glycols, 1948, 152: 95
- protein, 1950, 163: 461
- several substances, simultaneous determination, 1948, 155: 282
- sodium, venous pressure, 1951, 166: 400
- sodium and chloride, 1951, 165: 328
- sulfa compounds, 1944, 141: 160
- sulfates at various plasma concentrations, 1939, 125: 510
- thyroxin, 1944, 140: 701
- uric acid, sodium salicylate, 1948, 154: 167
- urine flow, 1947, 148: 389
- RENAL HEMODYNAMICS: *see* KIDNEY
- RENAL THRESHOLD: *see* KIDNEY, threshold
- RENE, R. M.: *see* SHIDEMAN, F. E.
- RENIN
- adrenal gland, 1940, 128: 481
- adrenalectomy, 1941, 132: 622
- angiotonin and, in hemorrhagic shock, 1944, 140: 502
- arterial pressure, 1950, 160: 422
- as prophylaxis for experimental hypertension, 1942, 137: 517
- assay of, 1944, 140: 502
- blood pressure of fetal rats, 1942, 137: 480
- of hypertensive dogs, 1942, 137: 570

RENIN

- chronic treatment with, 1950, 162: 379
- circulatory system, 1944, 141: 129
- contraction of intestinal segments, 1940, 130: 29
- drugs and action of, 1938, 124: 84
- excretion of sodium, chloride and water and, 1951, 166: 619
- factors affecting pressor response to, 1940, 128: 718
- hypertensin hypothesis, limitations of, 1948, 152: 397
- hypertensinogen reaction, specificity of, 1942, 136: 731
- hypertension, 1946, 150: 190
- in hypotension and shock, 1944, 141: 134
- in renal hypertension, 1940, 130: 570
- liberation from kidney in experimental hypertension, 1940, 130: 22
- nephrectomy and response to, 1941, 135: 124
- of plasma of animals injected with kidney extract, 1947, 150: 355
- of plasma and lymph, 1946, 146: 670
- of renal venous blood in man, 1947, 150: 198
- origin of activator substance, 1941, 135: 214
- pitthng and hypertension due to, 1940, 130: 1
- preparation and bioassay of, 1939, 127: 768
- pressor action of, sodium thiocyanate, 1944, 141: 416
- pressor response to, in dogs, 1941, 134: 789
- renal extract, 1940, 128: 718
- pressor substances in plasma, 1948, 153: 336
- production of renal hypertension with, 1950, 162: 385
- renal blood flow, blood pressure, 1941, 135: 88
- clearance, 1939, 126: 361
- renal function, 1948, 153: 458
- secretion, by kidney, 1942, 137: 47
- substrate and renal hypertension, 1951, 164: 630
- Tigerstedts, recovery from kidney, 1938, 123: 364
- vascular reactivity to, 1949, 156: 416

RENKIN, E. M.: *see* PAPPENHEIMER, J. R.

RENNICK, BARBARA R.: *see* FREYBURGER, W. A.

— *See* MOE, G. K.

— *See* PARDO, E. G.

RENNIN

- in gastric juice, 1943, 138: 557

RENSHAW, B. Mechanisms in central inhibition, 1946, 146: 443

— and THERMAN, P. O. Excitation of axons by adjacent axons, 1941, 133: 96

— *See* ROSENBAUM, H.

REPETITIOUSNESS: *see* NERVE FIBERS

REPRODUCTION

- adrenal cortical hormones, 1938, 122: 16
- bone growth, 1946, 146: 590
- growth of female rats, 1940, 128: 365
- high frequency ratio waves, 1946, 147: 281
- hypothalamic lesions, 1940, 129: 39
- in vitamin B₁₂ deficient rat, 1951, 165: 79
- NaCl intakes, 1946, 147: 340
- requirements as indicated by self-selection, 1938, 122: 734
- varying calcium intakes, 1945, 144: 718
- visible radiations, 1942, 137: 766
- vitamin A, 1939, 125: 335

REPRODUCTIVE SYSTEM

- male, adrenal cortex, 1939, 126: 371

RESISTANCE

- development of, to trauma, 1943, 138: 346; 1945, 143: 405
- to altitude, adrenal cortex, 1948, 153: 16
- to oxygen poisoning, ways of increasing, 1944, 142: 462
- to reduced pressure, overdosage of vitamins, 1945, 145: 130
- vitamin deficiencies, 1945, 145: 132

RESISTANCE LOAD

- energetics of surviving heart, 1941, 134: 636

RESORCINOL

- clotting time, 1945, 144: 450

RESPIRATION

- abdominal chemoreceptor, 1946, 147: 654
- acid-humoral control of, 1945, 145: 1
- activity patterns during, 1940, 128: 617
- acute methemoglobinemia, 1943, 139: 64
- adjustment to postural change, 1940, 130: 774
- adrenaline, 1950, 160: 485
- in hypoxemia, 1950, 161: 51
- anoxemia, 1947, 148: 392
- anoxia, 1943, 138: 662
- anoxic stimulation and depression of, 1947, 148: 409
- antipyrine, 1949, 157: 287
- apparatus for measuring in rabbit and cat, 1950, 163: 112
- arrest of, drain blood flow, 1938, 122: 207
- atrial inflow, 1950, 162: 259
- atrial pressures, 1950, 160: 562
- body temperature, 1947, 149: 659
- by diffusion, at high altitude, 1949, 156: 54
- carbon dioxide, 1951, 165: 334
- carbon dioxide, 1938, 124: 730; 1940, 130: 779; 1947, 151: 469; 1947, 151: 489
- anoxia, 1942, 137: 257
- cardiac output, 1941, 133: 642
- carotid body temperature, 1939, 127: 94
- carotid sinus pressoreceptive reflex for, 1938, 122: 306
- central chemical control of, 1940, 130: 155; 1947, 148: 412
- central stimulation of during anoxia, 1942, 136: 15
- cerebral differentiated irradiation, 1942, 136: 783
- change of bronchial calibre during, 1940, 128: 279
- character of and buoyancy of body, 1942, 137: 136
- characteristics at high altitude, 1949, 156: 55
- chemical stimulation of expiratory half-center, 1942, 136: 486
- chemoreceptors of, in fishes, 1942, 138: 204
- CO₂ tension of arterial blood, 1939, 128: 1
- CO poisoning, 1941, 134: 683
- colonic temperature, 1951, 166: 86
- descending pathways in spinal cord controlling, 1949, 157: 468
- development in duck, 1938, 121: 700
- device for recording of and of shivering, 1940, 128: 739
- drugs applied to obex region of brain, 1938, 123: 766
- dual excitatory action of vagal stretch reflex, 1941, 131: 674

See page iii for guide to use of index

- during and after acclimatization to high altitude, 1949, 157: 445
- electrical activity of phrenic nerve during, 1949, 159: 19
- electrophrenic, 1948, 155: 1
- inhibition of spontaneous respiration, 1948, 155: 203; 1950, 163: 118
- exercise, 1941, 135: 35; 1950, 162: 54
- in spinal dog, 1950, 162: 64
- exposure to anoxia necessary to abolish, 1944, 141: 412
- fetal, aspiration of amniotic fluid, 1941, 134: 769
- flow patterns of, altitude, 1949, 157: 265
- fluctuations of arterial blood pressure with, 1942, 137: 624
- frequency, body temperature, 1951, 166: 97
- G forces, 1947, 150: 14
- gas concentration and volume in, 1950, 161: 345
- hydrogen ion concentration, CO₂, 1945, 144: 126
- in hibernation, carbon dioxide, 1951, 167: 638
- in hypothermia, 1941, 132: 685
- in midpontine decerebrate animal, 1950, 162: 74
- inflation and deflation of chest, 1940, 130: 675
- initiation of, in chick, 1938, 121: 684
- intensity of inspiratory contractions, 1941, 131: 659
- interaction of central and peripheral chemical control, 1940, 130: 155
- intracisternal injection of calcium chloride, 1945, 145: 232
- intracisternal potassium phosphate, 1945, 145: 224
- intravenous oxygen, 1939, 127: 228
- localized medullary stimulation, 1940, 129: 709
- magnesium-potassium antagonism, 1951, 164: 707
- measurement of gases with nitrogen meter, 1950, 161: 342
- medullary origin of periodicity, 1949, 158: 157
- motor cortex stimulation, 1942, 137: 471
- movements in drowning, 1951, 167: 95
- obstruction of, right auricular pleural pressures, 1942, 136: 117
- open pneumothorax, 1942, 135: 541
- origin of rhythmicity, 1939, 127: 654
- oxygen consumption, in shock, 1948, 153: 73
- oxygen tension, 1947, 149: 277
- panting and panting movements in mammals and birds, 1942, 138: 12
- peripheral chemical control of, 1940, 130: 155
- pontine and medullary regulation of, 1950, 160: 385
- portal blood flow, 1951, 167: 738
- postural changes in, 1943, 138: 364
- pressures and interatrial septal defects, 1950, 162: 508
- progressive anoxia, 1948, 153: 89
- pulmonary artery ligation, 1949, 157: 317
- pulmonary vascular capacity, 1943, 139: 95
- pulmonary volume receptors, 1946, 147: 113
- pyrogen-induced fever, 1950, 161: 532
- quinidine, 1942, 136: 388
- recruitment muscle hyperpnea, 1938, 122: 48
- reflexes involved in, 1946, 147: 95
- reflexogenic concepts of, 1941, 133: 694
- regulation, by carotid body reflexes, 1938, 121: 75; 1941, 133: 1
- during exercise, 1948, 153: 567
- hydrogen ion concentration, 1945, 144: 126
- role of vagus in control, 1951, 166: 255
- serum proteins, 1942, 135: 319
- akin cooling and pressure breathing, 1948, 152: 122
- spasmodic in cats, 1948, 154: 55
- spontaneous, inhibition by electrophrenic respiration, 1948, 155: 203
- spontaneous variation of finger tip, 1942, 136: 433
- stages of development of regulation, 1938, 121: 242
- standing, 1938, 124: 457
- stroke volumes of heart, 1948, 154: 273
- thyroid compounds, 1944, 141: 34
- tipping, 1946, 147: 661
- under pentothal anesthesia, 1948, 154: 428
- vagal effect, 1941, 132: 571
- vagal stimulation, 1947, 149: 24
- variations in, cardiac output, 1941, 134: 74
- venous return, 1946, 145: 528
- ventricular filling, 1944, 142: 52
- water vapor at simulated altitude, 1949, 156: 299
- waves appearing in arterial blood pressure, 1940, 129: 289
- with direct and crossed phrenic connections, 1951, 166: 241
- RESPIRATION (TISSUE): *see* NAME OF TISSUE
- RESPIRATORY CENTERS
- afferent impulses, 1948, 155: 147
- central neurohumoral intermediation in, 1943, 139: 371
- cyclic changes in, 1948, 155: 147
- differentiation of, 1941, 134: 192
- direct stimulation of, 1943, 139: 490
- factors affecting survival in decapitated head, 1944, 142: 154
- inspiratory and expiratory, 1941, 134: 192
- integration of centers, in cat, 1939, 126: 702
- interrelation of, 1939, 126: 691
- medullary, 1940, 129: 716; 1941, 134: 177
- localization of, 1939, 126: 679
- sensitivity to hydrogen ions, 1944, 142: 125
- survival in severed head, 1946, 146: 242
- RESPIRATORY DEAD SPACE: *see* LUNGS
- RESPIRATORY EFFICIENCY
- of men on horizontal and grade walking, 1946, 145: 400
- RESPIRATORY ENZYMES
- high oxygen tension, cyanide, 1944, 142: 379
- RESPIRATORY EXCHANGE
- adrenaline, 1944, 142: 753
- improved methods for measurement of, 1944, 142: 744
- in working men in heat, 1945, 143: 171
- of O₂ in man, 1946, 147: 54
- RESPIRATORY FAILURE
- acute, carotid-mandibular reflex in, 1947, 150: 358
- due to blood pH above 7.8, 1947: 148: 9
- RESPIRATORY FLOW
- of water in sharks, 1945, 145: 136

RESPIRATORY MUSCLES

response to acid, in contrast to that of other muscles, 1945, 145: 9

RESPIRATORY PATTERNS

formulae for calculating, 1947, 150: 78
of laboratory animals, 1947, 150: 78
origin of activity patterns, 1940, 128: 629
of expiratory patterns, 1941, 131: 681

RESPIRATORY QUOTIENT (ORGAN OR TISSUE): see ORGAN OR TISSUE**RESPIRATORY QUOTIENT (ORGANISM)**

acclimatization to high altitude, 1947, 149: 570
adrenaline, 1940, 130: 197
at high altitudes, 1946, 146: 712; 1947, 150: 204
corticosterone, 1949, 127: 712
following subcutaneous histamine, 1947, 148: 136
height of, muscular efficiency, 1938, 121: 123
hemorrhage, 1947, 151: 38
high carbohydrate intake, 1938, 124: 246
hypophysectomy, 1938, 122: 538
in exercise, sex, 1942, 137: 320
in extreme cold, 1947, 150: 102
in fat-fed dogs, 1942, 137: 437
in hypothalamic obesity, 1946, 147: 727
in thiamin deficiency, 1947, 148: 52
in work during fasting, 1945, 143: 151
non-protein, starvation, dehydration, 1947, 148: 603
of alveolar air by indirect measurement, 1946, 147: 193
during exercise and anoxia, 1946, 147: 199
of fasting pigeon, 1944, 141: 305
of rabbits during intestinal obstruction, 1947, 149: 498
of rat after controlled feeding, 1942, 137: 117
of rats fed glucose, 1940, 128: 557
of various hexoses fed to monkey, 1944, 141: 250
of various substances in the rat, 1942, 135: 744
on treadmill, in extreme cold, 1947, 150: 105
phospholids, 1939, 126: 112
posture, 1938, 122: 563
reclining and standing, 1938, 124: 457
thermal polypnea, 1940, 129: 629
under chloralose anesthesia, 1941, 131: 561

RESPIRATORY RATE

acclimatization to high altitude, 1947, 149: 570
anoxia, 1946, 146: 329; 1947, 148: 394; 1947, 148: 409; 1950, 160: 138
at high altitudes, 1947, 150: 204
at various altitudes, 1947, 148: 141
carbon dioxide, 1938, 124: 491
cortical stimulation, 1949, 159: 239
in exercise, 1944, 142: 207
rate of decompression, 1947, 150: 608
tourniquet shock, 1945, 144: 495

RESPIRATORY REFLEX

nerve impulse frequency, 1939, 125: 125
phrenic response to inflation of the lungs, 1946, 147: 90
pulmonary volume receptors, 1946, 147: 113
vagal, carbon dioxide, 1938, 124: 535

RESPIRATORY RESISTANCE

of gases used for deep sea diving, 1939, 126: 409

RESPIRATORY TRACT

damaged tracheal mucosa, 1944, 140: 467
fluid, excretion of, 1942, 135: 384
secretion, adrenergic drugs, 1943, 138: 566
measurement of gases in, 1950, 161: 342

RESPIRATORY VOLUME

measurement of, in laboratory animals, 1947, 150: 70

RESPIROGRAM

for laboratory animals, 1947, 150: 74

REST

adrenocortical hormones, 1938, 121: 549
biochemistry of muscle, 1941, 132: 341
blood chemistry, sulfa drugs, 1942, 137: 595
blood flow of spleen, 1939, 127: 106
blood volume, 1945, 144: 227; 1946, 146: 747
capillary pressure, 1947, 149: 393
cardiac output in humid heat, 1940, 131: 54
cardiovascular adjustments to in dry heat, 1943, 139: 586
circulation in, at high altitude, 1941, 132: 555
distribution of lactic acid between blood and muscle, 1938, 122: 360
elimination of nitrogen, helium, 1941, 131: 620
lung circulation, 1948, 152: 372
oxygen consumption of frog muscle, 1941, 135: 238
oxygen metabolism, 1940, 129: 1
plasma phosphatase level of bull, 1948, 152: 281
sulfanilamide affect in, 1941, 135: 77
time spent by blood in lung capillary, 1945, 143: 621

RESTING POTENTIAL: see ORGAN OR TISSUE**RESUSCITATION**

cardiac, from induced ventricular fibrillation, 1951, 164: 601
see also ARTIFICIAL RESPIRATION

RETICULO-ENDOTHELIAL SYSTEM

radiation, 1951, 164: 822

RETICULOCYTE COUNT

high fat and choline intake, 1945, 144: 445
in induced hyperchromic anemia, 1946, 147: 407
in normal and anemic rats, 1944, 141: 356
with cholesterol feeding, 1947, 149: 3

RETINA

acetylcholine and cholinesterase of, 1947, 148: 42
cerebral function, 1938, 121: 454
fovea, threshold vision and light and dark adaptation at, 1938, 121: 454
illumination of and optic fiber response, 1938, 121: 400
nature and mechanism of peripheral visual process, 1946, 146: 582
oxygen consumption of, 1943, 139: 9

RETRACTOR PENIS

autonomic control of, 1938, 122: 745

REUTING, RUTH: see CORCORAN, A. C.**REYNOLDS NUMBER**

for pulmonary and arterial flows, 1949, 159: 489

REYNOLDS, HELEN: *see* SPICER, S. S.

REYNOLDS, L.: *see* MACY, ICE G.

REYNOLDS, MAY S.: *see* OHLSON, MARGARET A.

REYNOLDS, MONICA. Isotonic saline after hemorrhage, 1949, 158: 418

- REYNOLDS, O. E. Discontinuous chronic anoxia and liver glycogen stores, 1947, 150: 65
- and HUTCHINS, H. C. Reduction of hyper-irritability, 1948, 152: 658
- and PHILLIPS, N. E. Adaptation to altitude anoxia, 1947, 151: 147
- REYNOLDS, S. R. M. Blood flow in umbilical vessels, 1951, 166: 25
- Uterine accommodation, 1947, 148: 77
- and FOSTER, FRANCES I. Acetylcholine-equivalent in uterus and placenta, 1939, 127: 343
- and FOSTER, FRANCES I. Cholinergic-like action of estrogen on nasal mucosa, 1940, 131: 422
- and FOSTER, FRANCES I. Relative cholinergic effects of estrogens, 1939, 128: 147
- and FOSTER, FRANCES I. Species differences in cholinergic action of estrogen, 1940, 131: 200
- RHINES, R., MAGOUN, H. W. and WINDLE, W. F. Bulbar inhibitory mechanism in concussion, 1946, 146: 344
- RHINITIS, ALLERGIC
histamine-like secretions during, 1945, 144: 711
- RHOADS, J. E., LIBORO, O., FOX, S., GYÖRGY, P. and MACHELLA, T. E. In vivo action of new lipotropic fraction, 1951, 166: 436
- , STENGEL, A., JR., RIEGEL, CECILIA, CAJORI, F. A. and FRAZIER, W. D. Absorption of protein split products from colon, 1939, 125: 707
- RHODE, C. M., PARKINS, W. M., TOURTELLOTTE, DEE and VARS, H. M. Continuous infusion of nutrients, 1949, 159: 409
- , PARKINS, W. M. and VARS, H. M. Nitrogen balances of dogs, 1949, 159: 415
- RHYTHMINA
heart rhythm, 1949, 159: 467
- RIBOFLAVIN
appetite in rats, 1939, 127: 202
- carbohydrate in diet and excretion of, 1950, 162: 131
- deficiency, carbohydrate metabolism, 1951, 165: 604
- comparison of collapse symptoms with adrenalectomy, 1951, 165: 618
- erythropoiesis, 1945, 145: 62
- hemoglobin and hematocrit in, 1951, 165: 609
- iodide metabolism in, 1951, 167: 576
- response of respiratory enzymes to thyroid, 1950, 161: 29
- excretion, 1941, 133: 555; 1945, 144: 9; 1945, 144: 59
- on normal and restricted diets, 1947, 149: 145
- various levels of intake, 1946, 145: 628
- fat appetite, 1941, 131: 639
- hemoglobin production in anemia, 1938, 122: 154
- in body fluids during dietary restrictions in man, 1946, 147: 47
- intake at army training centers, 1945, 144: 590
- load test and fasting excretion of, 1947, 149: 259
- massive doses and reduced caloric intake, 1947, 150: 553
- of liver of rats on varied thiamin intake, 1945, 144: 646
- of tissues of rats, 1945, 144: 76
- of urine, blood, and feces, on various diets, 1947, 148: 624
- of various organs, 1947, 149: 259
- resistance to anoxia, 1944, 141: 179
- resistance to reduced pressure, 1945, 145: 132
- supplementation with, 1947, 148: 636
- thrombin, enzymatic inactivation of, 1950, 162: 665
- work output of perfused muscle, 1944, 142: 269
- RICE, H. V. Respiratory vagal reflexes and carbon dioxide, 1938, 124: 535
- and JOY, MARGARET S. Respiratory movements and vagal stimulation, 1947, 149: 24
- and ROSS, R. T. Electrical potential of gastric mucosa, 1947, 149: 77
- RICE, J. C.: *see* BRAZDA, F. G.
- RICE, KATHERINE K.: *see* RICHTER, C. P.
- RICH, EDITH: *see* HIMWICH, H. E.
- RICHARDS, A. N., BOTT, P. A. and WESTFALL, B. B. Inulin and renal tubule secretion, 1938, 123: 281
- *See* BECK, L. V.
- RICHARDS, C. H.: *see* GASSER, H. S.
- RICHARDS, D. W., JR., COURNAND, A., DARLING, R. C., GILLESPIE, W. H. and BALDWIN, ELEANOR DEF. Blood pressure in the right auricle, 1942, 136: 115
- *See* COURNAND, A.
- *See* HAMILTON, W. F.
- RICHARDS, R. K.: *see* MCINTIRE, F. C.
- RICHARDSON, J. A. and HOUCK, C. R. Testosterone, estradiol and renal function, 1951, 165: 93
- RICHARDSON, JESSIE E. and MAYFIELD, HELEN L. Diurnal excretion of ascorbic acid, 1940, 128: 583
- RICHTER, C. P. Dextrose appetite of rats treated with insulin, 1942, 135: 781
- Nutrition studied by single food choice method, 1941, 133: 29
- Nutritive value of dextrose and of corn syrups, 1945, 145: 107
- Thiamine and fructose utilization, 1948, 154: 499
- Voluntary ingestion of water, 1938, 122: 668
- and BARELARE, B., JR. Appetite in vitamin B deficient rats, 1939, 127: 199
- and BIRMINGHAM, J. R. Fat appetite in rats after ligation of bile duct, 1942, 138: 71
- and CAMPBELL, KATHRYNE, H. Sucrose taste thresholds, 1940, 128: 291
- and CLISBY, KATHRYN H. Taste thresholds, 1941, 134: 157
- and HAWKES, C. D. Components of vitamin B and appetite, 1941, 131: 639
- and MACLEAN, ALICE. Salt taste threshold of humans, 1939, 126: 1
- and RICE, KATHERINE K. Appetite and activity on a yellow or white corn diet, 1943, 139: 147
- and RICE, KATHERINE K. Coprophagy as a source of vitamin B complex, 1945, 143: 344
- and RICE, KATHERINE K. Thiamine and energy value of dextrose, 1942, 137: 573

- RICHTER, C. P. and RICE, KATHERINE K. Thiamine and nutritive value of dextrose and casein, 1944, 141: 346
- and RICE, KATHERINE K. Thiamine and nutritive value of dextrose and sucrose, 1945, 143: 336
- and RICE, KATHERINE K. Vitamin D and cyclical activity of rats, 1943, 139: 693
- , HOLT, L. E., JR. and BARELARE, B., JR. Growth and reproduction on self-selected diet, 1938, 122: 734
- , HOLT, L. E., JR., BARELARE, B., JR. and HAWKES, C. D. Appetite in vitamin B deficiency, 1938, 124: 596
- See BARELARE, B., JR.
- See LANGWORTHY, O. R.
- RICHTER, D. and CROSSLAND, J. Brain acetylcholine, 1949, 159: 247
- and DAWSON, R. M. C. Brain metabolism, 1948, 154: 73
- and MACINTOSH, F. C. Adrenaline ester, 1941, 135: 1
- See DAWSON, R. M. C.
- RICHTER, K. M. and WINTER, C. A. Hyperthyroidism and genital structure and function, 1947, 150: 95
- RICKETS
- bone growth, 1946, 146: 597
- calcium metabolism in, 1951, 166: 387
- comparison of dihydrotachysterol and vitamin D in, 1942, 137: 171
- due to metals which form insoluble phosphates, 1938, 124: 230
- fasting, tetany due to, 1942, 137: 461
- healing, properties of bone, 1942, 138: 34
- mechanical properties of tibiae, 1942, 138: 27
- x-ray diffraction studies of bone in, 1945, 143: 413
- RIDDLE, O. and CAUTHEN, G. E. Erythrocytes and heredity, growth and metabolism, 1938, 122: 480
- , LAHR, E. L. and BATES, R. W. Hormones in the initiation of maternal behavior, 1942, 137: 299
- , SMITH, GUINEVERE C., and MILLER, R. A. Heat production in adrenalectomized pigeons, 1944, 141: 151
- See BATES, R. W.
- See LAHR, E. L.
- See SMITH, GUINEVERE C.
- RIDOUT, JESSIE H.: see BEST, C. H.
- RIEDERS, F.: see GOLDSTEIN, F.
- RIEGEL, CECILIA, CALDER, D. G. and RAVDIN, I. S. Bile cholesterol and gallbladder activity, 1940, 129: 271
- See RHODAS, J. E.
- RIESEN, W. H., HERBST, E. J., WALLIKER, CATHERINE and ELVEHJEM, C. A. Restricted caloric intake and longevity, 1947, 148: 614
- RIGDON, R. H.: see ROSTORFER, H. H.
- RIGGS, B. C. Pyloric muscle under high oxygen pressure, 1945, 145: 211
- RIGHTING REFLEX
- thiamin deficiency, 1944, 141: 444
- RIKER, W. F.: see WESCOE, W. C.
- RILEY, R. F., MCCLEARY, BEATRIX and JOHNSON, RUTH E. Denervation atrophy, 1945, 143: 677
- RILEY, R. L., HIMMELSTEIN, A., MOTLEY, H. L., WEINER, H. M. and COURNAND, A. Changes of the pulmonary vascular bed, 1948, 152: 372
- , LILIENTHAL, J. L., JR., PROEMMEL, D. D. and FRANKE, R. E. Indirect method for calculating alveolar gas pressures, 1946, 147: 191
- See HAMILTON, W. F.
- See HOUSTON, C. S.
- See LILIENTHAL, J. L., JR.
- RING, G. C. Calorigenic effect of various mixtures of foodstuffs, 1942, 135: 742
- Function of thyroid in maintaining heat production, 1942, 137: 582
- Response to cold after adrenalectomy, 1938, 122: 435
- Specific dynamic action of fat after pancreatectomy, 1940, 131: 357
- Specific dynamic action on carbohydrate and fat, 1943, 138: 488
- Thiamine deficiency and diet high in carbohydrate, 1947, 148: 51
- Thyroid activity after iodine ingestion, 1941, 134: 631
- Thyroid stimulation by cold, 1939, 125: 244
- , BALABAN, MIRIAM and OPPENHEIMER, M. J. Measurement of heart output, 1949, 157: 343
- , GREISHEIMER, ESTHER M., BAIER, H. N., OPPENHEIMER, M. J., SOKALCHUK, A., ELLIS, D. and FRIDAY, S. J. Electrokymograph and direct Fick measurements, 1950, 161: 231
- , MICHIE, CATHERINE R. and OPPENHEIMER, M. J. Changes in heart size, 1949, 156: 339
- , SOKALCHUK, A., BAIER, H. N., RUDEL, H. W., OPPENHEIMER, M. J., FRIDAY, S. J. and NAVIS, G. J. Electrokymograph and Stewart principle, 1950, 161: 236
- , SOKALCHUK, A., NAVIS, G. J. and RUDEL, H. W. Heart changes on electrokymograph, 1950, 163: 475
- See SAWYER, M. E. MACK.
- RINGER'S SOLUTION
- acetylcholine synthesis, excitation, 1946, 147: 384
- comparison with serum for tissue respiration, 1940, 128: 456
- intraperitoneal injection of and kidney weight, 1938, 121: 189
- RIOCH, D. McK.: see PINKSTON, J. O.
- RISLEY, E. A., RAYMOND, W. B. and BARNES, R. H. Study of anti-ulcer substances in shay rat, 1947, 150: 754
- RIXON, R.: see ALLARDYCE, J.
- ROBACK, R. A., GROSSMAN, M. I. and IVY, A. C. Intra-gastric pressure and acid secretion, 1950, 161: 47
- See GREENGARD, H.
- ROBB, JANE S. Electrical systole, 1951, 166: 584
- ROBBINS, K. C. Conversion of fibrinogen to fibrin, 1944, 142: 581
- ROBBINS, R.: see LEPKOVSKY, S.
- ROBERTS, A.: see HERTZ, S.

- ROBERTS, E.: *see* GRIFFITH, J. Q., JR.
- ROBERTS, J. E., ROBINSON, B. E. and BUCHANAN, A.
R. Thermal reaction to ergotoxine, 1949, 156: 170
— *See* BUCHANAN, A. R.
- ROBERTS, J. T.: *see* ECKSTEIN, R. W.
- ROBERTS, LOIS, M.: *see* BENNETT, L. L.
- ROBERTS, R. B.: *see* FLEXNER, L. B.
- ROBERTS, S. and SAMUELS, L. T. Diet and renal function, 1946, 146: 358
— and SAMUELS, L. T. Fasting and renal gluconeogenesis after evisceration, 1944, 142: 240
— and SAMUELS, L. T. Previous diet and fasting metabolism, 1949, 158: 57
—, SAMUELS, L. T. and REINECKE, R. M. Carbohydrate-sparing effect of previous fat-feeding, 1944, 140: 639
— *See* REINECKE, R. M.
— *See* SZEGO, CLARA M.
- ROBERTSON, CHARLOTTE R., LANGLOIS, K. J., MARTIN, C. G., SLEZAK, G. and GROSSMAN, M. J. Release of gastrin by ACh, 1950, 163: 27
— *See* ANTIA, F.
— *See* GROSSMAN, M. I.
- ROBERTSON, EVANGELINE: *see* KOCHAKIAN, C. D.
- ROBERTSON, G. G.: *see* WOODBURY, R. A.
- ROBERTSON, R.: *see* NICKERSON, J. L.
- ROBERTSON, W. V. B. and PEYSER, P. Cardiac muscle changes following epinephrine, 1951, 166: 277
- ROBINOW, M.: *see* WOODBURY, R. A.
- ROBINSON, B. E.: *see* ROBERTS, J. E.
- ROBINSON, C. S.: *see* BUCHER, GLADYS R.
— *See* LEVY, S. E.
— *See* LITTLE, J. M.
- ROBINSON, E. A. and ADOLPH, E. F. Pattern of normal water drinking in dogs, 1943, 139: 39
- ROBINSON, H. W., GREISHEIMER, ESTHER M., OPPENHEIMER, M. J. and NELSON, W. E. Alkali therapy of acidosis, 1948, 154: 480
- ROBINSON, M. H.: *see* KING, C. E.
- ROBINSON, P. F.: *see* JOHNSON, R. E.
- ROBINSON, S. Body size and energy exchange in work, 1942, 136: 363
— and GERKING, S. D. Thermal balance of men working in severe heat, 1947, 149: 476
— and HARMON, P. M. Effects of training and of gelatin on muscular work, 1941, 133: 161
— and HARMON, P. M. Lactic acid mechanism and blood changes in training, 1941, 132: 757
—, TURRELL, E. S., BELDING, H. S. and HORVATH, S. M. Rapid acclimatization to work in hot climates, 1943, 140: 168
—, TURRELL, E. S. and GERKING, S. D. Equivalent conditions of air temperature and humidity, 1945, 143: 21
— *See* GERKING, S. D.
— *See* ROUGHTON, F. J. W.
— *See* TURRELL, E. S.
- ROBSCHEIT-ROBBINS, F. S. and WHIPPLE, G. H. Hemoglobin production and anemia, 1941, 134: 263
- and WHIPPLE, G. H. Hemoglobin production factors in the liver, 1939, 126: 142
— *See* GYÖRGY, P.
- ROBY, C. C. and PFEIFFER, C. Mercurial diuretics and chloride excretion, 1942, 135: 591
—, SMITH, S. and PFEIFFER, C. Vagal section and parathyroprival tetany, 1940, 129: 766
— *See* PFEIFFER, C.
- ROCHA E SILVA, M. and ESSEX, H. E. Animal poisons and blood histamine, 1942, 135: 372
—, and GRAÑA, A. Shock produced by hydatid fluid, 1945, 143: 306
—, BERALDO, W. T. and ROSENFELD, G. Bradykinin, 1949, 156: 261
— *See* GRAÑA, A.
- ROCK, J.: *see* SNODGRASS, J. M.
- RODBARD, S. Body temperature and blood sugar in the chicken, 1947, 150: 67
— Breath-holding time, 1947, 150: 142
— Decompression sickness on re-ascent to high altitudes, 1947, 150: 133
— Responses to renin and angiotonin after nephrectomy, 1941, 135: 124
— and FINK, A. Circulation time, 1948, 152: 383
— and GOLDSTEIN, M. S. Blood sugar and body temperature, 1950, 162: 175
— and TOLPIN, M. Body temperature and blood pressure, 1947, 151: 509
—, SAIKI, H., MALIN, A. and YOUNG, C. Regulation of fluid volume, 1951, 167: 485
—, SAMSON, F. and FERGUSON, D. Thermosensitivity and blood pressure changes, 1950, 160: 402
—, TINSLEY, M., BORNSTEIN, H. and TAYLOR, L. CNS and temperature-pressure relations, 1949, 158: 135
— *See* FELDMAN, M., JR.
— *See* HWANG, W.
— *See* KATZ, L. N.
— *See* LENEL, R.
— *See* STAMLER, J.
— *See* SURTSIN, A.
- RODES, N. D., LEMLEY, JANET M., DALE, ALICE B., STEPHENSON, S. E., JR. and MENEELY, G. R. Extracellular water content of heart, 1949, 157: 254
- RODRIGUES, H. A.: *see* SIMEONE, F. A.
- ROE, J. H.: *see* GOLDSTEIN, N. P.
- ROEMHILD, M.: *see* INGRAHAM, R. C.
— *See* WIGGERS, H. C.
- ROEMMELT, J. C., SARTORIUS, O. W. and PITTS, R. F. Adrenals and sodium excretion, 1949, 159: 124
— *See* WESTERFELD, W. W.
- ROENTGENKYMOGRAPH
determination of cardiac output, 1943, 138: 630
stroke volume in man, 1939, 126: 742
- ROEPKE, R. R. and HETHERINGTON, W. A. Osmotic relation of aqueous humor and blood plasma, 1940, 130: 340
— *See* VISSCHER, M. B.
- ROGERS STRENGTH INDEX
glycine ingestion, 1941, 132: 580

- ROGERS, C. S., FERGUSON, C. C., FRIEDGOOD, C. E. and VARS, H. M. Dietary fat and liver regeneration, 1950, 163: 347
 — See FERGUSON, C. C.
- ROGERS, GERTRUDE A.: see CANZANELLI, A.
- ROGERS, P. V. Reproductive system and electrical potentials, 1938, 121: 565
- ROJAS, A. G.: see WÉGRIA, R.
- ROLEY, W. C.: see HANEY, H. F.
- ROLF, DORIS: see HARTMANN, A. F., JR.
 — See HEINBECKER, P.
 — See SURTSHIN, A.
 — See WHITE, H. L.
- ROMA, M.: see EICHELBERGER, LILLIAN
- RONAN, ALICE: see BOYD, E. M.
- RONKIN, R. R.: see ELBEL, E. R.
 — See KARPOVICH, P. V.
- RONZONI, ETHEL. Stress response of adrenal cortex, 1950, 160: 499
 — and REICHLIN, S. Adrenergic agents and adrenal cortex, 1950, 160: 490
- ROOF, BETTY S., LAUSON, H. D., BELLA, S. T. and EDER, H. A. Renal function after renal artery occlusion, 1951, 166: 666
- ROOME, N. W. Epinephrine and blood flow in an extremity, 1938, 123: 543
- ROOS, A. and BLACK, H. Gas tensions in blood, 1950, 160: 163
 — and SMITH, J. R. Experimental heart failure, 1948, 153: 558
- ROOT, MARY A. Mean blood pressure of cats, 1950, 162: 308
 — See BRAUER, R. W.
- ROOT, W. S. and BARD, P. Sympathetically mediated erection, 1947, 151: 80
 — and McALLISTER, F. F. Circulatory response of chronic spinal dogs to ether, 1941, 134: 65
 —, ALLISON, J. B., COLE, W. H., HOLMES, J. H., WALCOTT, W. W. and GREGERSEN, M. I. Blood in hemorrhagic and traumatic shock, 1947, 149: 52
 —, McALLISTER, F. F., OSTER, R. H. and SOLARZ, S. D. Ether anesthesia and blood, 1940, 131: 449
 —, ROUGHTON, F. J. W. and GREGERSEN, M. I. Blood volume determination by CO and dye methods, 1946, 146: 739
 —, WALCOTT, W. W. and GREGERSEN, M. I. Trauma and cardiac output, 1947, 151: 34
 — See ALLISON, J. B.
 — See CARPENTER, F. G.
 — See DEYRUP, INGRITH J.
 — See GRANT, W. C.
 — See GREGERSEN, M. I.
 — See JARCHO, L. W.
 — See KEIL, F. C., JR.
 — See McALLISTER, F. F.
 — See ROUGHTON, F. J. W.
 — See TOBIAS, C. A.
 — See WANG, S. C.
- ROSE BENGAL CLEARANCE
 fatty livers, 1946, 145: 649; 1946, 145: 664; 1946, 145: 669
- ROSE, B. Inactivation of histamine by adrenals, 1939, 127: 780
 — and BROWNE, J. S. L. Fate of intravenously injected histamine, 1938, 124: 412
 — and BROWNE, J. S. L. Histamine content of tissues after adrenalectomy, 1941, 131: 589
 —, KARADY, S. and BROWNE, J. S. L. Histaminase content of tissues, 1940, 129: 219
 — See KARADY, S.
- ROSEN, S. H.: see MARINE, D.
- ROSENBAUM, H. and RENSHAW, B. Respiratory pathways, 1949, 157: 468
- ROSENBAUM, J. D.: see DECKER, D. G.
- ROSENBLATT, A. D.: see BOYARSKY, L. L.
- ROSENBLITH, W. A.: see KAHANA, L.
- ROSENBLUETH, A. Electrotonic changes of excitability, 1941, 132: 57
 — Excitability of striated muscle, 1940, 129: 22
 — Interaction of axons, 1944, 140: 656
 — Recruitment of mammalian nerve fibers, 1944, 141: 196
 — Stimulation of axons by nerve impulses, 1941, 132: 119
 — Stimulation of nerves by direct currents, 1941, 132: 99
 — and ACHESON, G. H. Interelectrode distance in electrical stimulation, 1943, 138: 583
 — and CANNON, W. B. Cortical responses to electric stimulation, 1942, 135: 690
 — and CANNON, W. B. Early stages of neuromuscular transmission, 1940, 130: 205
 — and CANNON, W. B. Preganglionic denervation of sympathetic ganglion, 1939, 125: 276
 — and DEL POZO, E. C. Accommodation in mammalian motor nerves, 1942, 136: 629
 — and DEL POZO, E. C. Centrifugal course of Wallerian degeneration, 1943, 139: 247
 — and DEL POZO, E. C. Electric responses of smooth muscle, 1942, 137: 263
 — and DEL POZO, E. C. Impedance of ventricular muscle, 1943, 139: 514
 — and DEL POZO, E. C. Veratrine and the superior cervical ganglion, 1942, 136: 699
 — and DEMPSEY, E. W. Wallerian degeneration, 1939, 128: 19
 — and LUCCO, J. V. Fifth stage of neuromuscular transmission, 1939, 126: 39
 — and REBOUL, J. Effects of alternating current on nerve, 1939, 125: 251
 — and SIMEONE, F. A. Action of eserine on superior cervical ganglion, 1938, 122: 708
 — and SIMEONE, F. A. Responses of cervical ganglion to activation, 1938, 122: 688
 —, BOND, D. D. and CANNON, W. B. Control of cortical clonus, 1942, 137: 681
 —, DAUGHADAY, W. and BOND, D. D. Electrical stimulation of the turtle's ventricle, 1942, 138: 50
 —, DAUGHADAY, W. and BOND, D. D. The ventricular electrogram, 1943, 139: 464

- , LISSÁK, K. and LANARI, A. Synaptic transmission, 1939, 128: 31
- , REBOUL, J. and GRASS, A. M. Action of alternating currents on nerve, 1940, 130: 527
- , WILLS, J. H. and HOAGLAND, H. Electrogram of striated muscle, 1941, 133: 724
- See ACHESON, G. H.
- See CANNON, W. B.
- See LANARI, A.
- See LISSÁK, K.
- See LUCO, J. V.
- See REBOUL, J.
- See SIMEONE, F. A.
- ROSENBERG, M. J.: *see* AGRESS, C. M.
- ROSENFELD, G.: *see* ROCHA E SILVA, M.
- ROSENFELD, M. and SNYDER, F. F. Stages of development of respiratory regulation, 1938, 121: 242
- ROSENHAIN, F. R. and PENROD, K. E. Blood gases in hypothermia, 1951, 166: 55
- ROSENMAN, R. H.: *see* FRIEDMAN, M.
- See PREC, O.
- ROSENTHAL, A.: *see* WELSH, C. A.
- ROSENTHAL, O. and MCCARTHY, M. D. Post-burn azotemia and thermal injury, 1947, 148: 365
- , SHENKIN, H. A. and DRABKIN, D. L. Metabolism of brain from anoxic animals, 1945, 144: 334
- ROSENTHAL, R. L. and BENEDEK, AGNES L. Coagulation and hemorrhage after x-irradiation, 1950, 161: 505
- , GOLDSCHMIDT, L. and PICKERING, B. I. Blood and cysteine protection in x-irradiation, 1951, 166: 15
- See GOLDSCHMIDT, L.
- ROSENTHAL, S. M., TABOR, H. and LILLIE, R. D. „Local nature of acquired resistance to trauma, 1945, 143: 402
- See TABOR, H.
- ROSENTHAL, S. R. and SONNENSCHN, R. R. Histamine and cutaneous pain, 1948, 155: 186
- ROSENZWEIG, M. R. Representations of the two ears, 1951, 167: 147
- ROSIERE, C. E.: *see* ANTIA, F.
- ROSKELEY, R.: *see* STARR, P.
- ROSNER, L. and BELLOWS, J. Passage of sorbitol from blood to aqueous humor, 1939, 125: 652
- ROSS, J. F.: *see* CHAPIN, M. A.
- See SIMEONE, F. A.
- ROSS, R. T.: *see* RICE, H. V.
- ROSS, W. D.: *see* NEUFELD, A. H.
- ROSTORFER, H. H. and RIGDON, R. H. Oxygen transport in blood of ducks, 1946, 146: 222
- ROTAMETER
- blood flow recorded with, 1948, 153: 154
- comparison with Fick method for measurement of cardiac output and input, 1950, 160: 184
- measurement of cardiac stroke volume, 1951, 167: 721
- ROTH, GRACE M. and GABRIELSON, M. A. Body bath temperature and gastric acidity, 1940, 131: 195
- and SHEARD, C. Effect of vasodilatation on vasoconstriction, 1942, 137: 695
- and SHEARD, C. Food ingestion and vasodilatation of extremities, 1948, 152: 183
- , HORTON, B. T. and SHEARD, C. Role of extremities in dissipation of heat, 1940, 128: 782
- , WILLIAMS, M. M. D. and SHEARD, C. Skin temperature affected by change of posture, 1938, 124: 161
- ROTH, J. A. and IVY, A. C. Caffeine and gastric secretion, 1944, 141: 454
- and IVY, A. C. Histamine gastric secretion enhanced by caffeine, 1944, 142: 107
- ROTH, L. W.: *see* HERTZMAN, A. B.
- See MCINTIRE, F. C.
- ROTHBALLER, A. B.: *see* McCANN, S. McD.
- See YEAKEL, ELEANOR H.
- ROTHCHILD, I., MEYER, R. K. and SPIELMAN, M. A. Oestrogen-progesterone interaction, 1940, 128: 213
- ROTHMAN, T.: *see* TYLER, D. B.
- ROTTA, A. and STANNARD, J. N. Oxygen debt of frog tissues, 1939, 127: 281
- See GREGG, D. E.
- ROUGHTON, F. J. W. Rate of reaction of $\text{CO} + \text{O}_2\text{Hb} \rightleftharpoons \text{O}_2\text{COHb}$ in blood, 1945, 143: 609
- Time spent by blood in human lung capillary, 1945, 143: 621
- and DARLING, R. C. Carbon monoxide and oxyhemoglobin dissociation, 1944, 141: 17
- and ROOT, W. S. Fate of CO in recovery from carbon monoxide poisoning, 1945, 145: 239
- , DARLING, R. C., FORBES, W. H., HORVATH, S. M., ROBINSON, S. and TALBOTT, J. H. Effects of sulfathiazole and sulfadiazine on man, 1942, 137: 593
- , DARLING, R. C. and ROOT, W. S. O_2 capacity, content and pressure in arterial blood, 1944, 142: 708
- , DILL, D. B., DARLING, R. C., GRAYBIEL, A., KNEHR, C. A. and TALBOTT, J. H. Sulfanilamide effects at rest and during exercise, 1941, 135: 77
- See DARLING, R. C.
- See FORBES, W. H.
- See ROOT, W. S.
- See TOBIAS, C. A.
- ROUSE, SYLVIA B. and BLANCHARD, E. W. Uterine motility in adrenalectomized rabbit, 1938, 123: 752
- RUBIDIUM
- histological effects of adding to K-deficient diet, 1943, 138: 246
- physiological activity of natural and radioactive, 1939, 125: 412
- radioactive, penetration of blood-cerebrospinal barrier, 1943, 140: 54
- RUBIN, A.: *see* HORVATH, S. M.
- RUBIN, S. H. and RALLI, ELAINE P. Relation of blood and liver lipids to pancreas, 1940, 129: 578
- See RALLI, ELAINE P.
- RUBINSTEIN, H. S. and RADMAN, H. M. Gonadotropic hormones and testicular development, 1938, 122: 319

- RUDEL, H. W.: *see* RING, G. C.
- RUDOLPH, G. G.: *see* REINECKE, R. M.
- RUEGAMER, W. R., MICHAUD, L., ELVEHJEM, C. A. and HART, E. B. Growth and hemoglobin in dogs on purified rations, 1945, 145: 23
- RUGGIERO, W. F.: *see* SHAFIROFF, B. G. P.
- RUHE, C. H. W.: *see* McLAIN, P. L.
- RULE, C.: *see* GROLLMAN, A.
- RUMEN
intermediary metabolism and functional development of, 1950, 162: 434
- RUMSEY, C., JR.: *see* BARACH, A. L.
- RUNELS, ELIZABETH A.: *see* SALTER, W. T.
- RUSCH, H. P.: *see* BOUTWELL, R. K.
- RUSH, B., JR. and CLIFFTON, E. E. Control of proteolytic activity in serum, 1951, 166: 485
- RUSHMER, R. F. Circulatory collapse after arterial stimulation, 1944, 141: 722
- Hydrostatic pressures in radial acceleration, 1947, 151: 459
- Nature of intraperitoneal and intrarectal pressures, 1946, 147: 242
- , BECKMAN, E. L. and LEE, D. Protection of cerebral circulation, 1947, 151: 355
- RUSKIN, A. and DECHERD, G. M. Temperature changes of the rabbit heart, 1949, 156: 285
- RUSSELL, H. D.: *see* BELDING, H. S.
- RUSSELL, JANE A. Adrenals and hypophysis in metabolism, 1943, 140: 98
- Anterior pituitary and action of insulin, 1938, 124: 774
- Anterior pituitary and adrenal cortex in metabolism, 1940, 128: 552
- Anterior pituitary and carbohydrate metabolism, 1938, 121: 755
- Hypophysectomy, thyroxine and carbohydrate metabolism, 1938, 122: 547
- Pituitary and carbohydrate metabolism, 1942, 136: 95
- and LONG, C. N. H. Amino nitrogen of tissues during shock, 1946, 147: 175
- *See* WILHELM, A. E.
- RUSSELL, R. W., PIERCE, J. F. and TOWNSEND, J. C., Impedance during electro-convulsive shock 1949, 156: 317
- RUSSELL'S VIPER: *see* DABOIA
- RUSO, H. F.: *see* BEYER, K. H.
- *See* WRIGHT, L. D.
- RUTHERFORD, R. B., GODFREY, E. W. and GRIFFITH, J. Q., JR. Roentgenographic observations of blood volume, 1941, 134: 808
- RUTIN: *see* VITAMIN P FLAVONOIDS
- RUTLEDGE, ENID K.: *see* HOLTKAMP, D. E.
- RYAN, A. H. and RANSEEN, E. L. Skin resistance as measure of physical condition, 1944, 142: 68
- RYAN, E. A. Dinitrophenol in liverless and diabetic dogs, 1951, 167: 224
- RYCHEL, W.: *see* NECHELES, H.
- RYDER, H. W.: *see* TREON, J. F.
- SACKS, J. Absence of anaerobic recovery in mammalian muscle, 1939, 125: 761
- Chemistry of muscular contraction, 1938, 122: 215
- Insulin and phosphorus turnover in muscle, 1945, 143: 157
- Iodoacetic acid and anaerobic muscular contraction, 1939, 126: 388
- Phosphate transfer in oxidative muscular contraction, 1943, 140: 316
- Radioactive phosphorus in metabolism of muscle, 1944, 142: 145
- Some factors influencing phosphate turnover in muscle, 1944, 142: 621
- Tracer phosphorus in anaerobic muscular contraction, 1940, 129: 227
- and ALTSHULER, C. H. Radioactive phosphorus in muscle metabolism, 1942, 137: 750
- and CULBRETH, G. G. Phosphate transport and turnover in the brain, 1951, 165: 251
- SADHU, D. P. Goitrogenesis, 1948, 152: 150
- Thiamine and action of acetylcholine on muscle, 1946, 147: 233
- Thyroid and anterior pituitary, 1948, 152: 263
- and BRODY, S. Pyridoxine and specific dynamic action, 1947, 151: 342
- and BRODY, S. Thiouracil and specific dynamic action, 1947, 151: 130
- and BRODY, S. Vitamin A ingestion and basal metabolism, 1947, 149: 400
- SAFFORD, H., WELLS, L. and GELLHORN, E. Sympathetic-adrenal discharges after hypophysectomy, 1946, 146: 386
- SAHYUN, M. Effect of zinc on insulin and its mechanism, 1939, 125: 24
- Prolonged action of protamine zinc insulin, 1940, 130: 521
- SAIKI, H.: *see* RODBARD, S.
- ST. JOHN, ELLEN: *see* GILMAN, A.
- ST. JOHN SWORT
photosensitivity produced by, 1942, 136: 650
- SALAMA, S.: *see* MISRAHY, G. A.
- SALHANICK, H. A.: *see* JACOBSON, A.
- SALICYLALDEHYDE: *see* SALICYLIC ACIDS, aldehyde
- SALICYLALDOXIME
inhibition of cytochrome oxidase, 1941, 131: 586
- uterine respiration, 1940, 128: 658
- SALICYLIC ACIDS
acetyl-, muscle sensitivity to acetylcholine and potassium, and, 1946, 145: 610
- oxygen consumption of tissues, 1951, 164: 727
- prothrombin, 1949, 159: 44
- transmission through milk, 1945, 143: 241
- aldehyde, clotting time, 1945, 144: 450
- blood coagulation, 1940, 130: 576
- induction of hypoprothrombinemia by, 1949, 159: 40
- methyl salt, absorption from alimentary tract, 1942, 135: 334
- muscle sensitivity to acetylcholine and potassium, 1946, 145: 610
- Na, excretion of uric acid, allantoin, 1948, 152: 302
- injection of, pH of blood, synovial fluid, 1946, 146: 9

S.L.S.: *see* SODIUM LAURYL SULFATE

See page iii for guide to use of index

- oxygen consumption of tissues, 1951, 164: 727
 uric acid clearance, 1948, 154: 167
 uric acid excretion, 1951, 164: 156
 prothrombin, vitamin K metabolism, 1949, 159: 44
 thio-, adrenaline oxidation by tyrosinase, 1942, 136: 67
- SALINE (ISOTONIC)**
 absorption of, blood pressure, 1947, 150: 468
 as infusion fluid following hemorrhage, 1947, 150: 641
 as plasma substitute, 1944, 141: 335
 body fluids, 1944, 140: 591
 cardiovascular effect of, 1949, 158: 418
 comparison with distilled water on ileal mucosa, 1940, 129: 174
 in traumatic shock, 1943, 140: 67
 infusion of, in burn shock, 1947, 150: 432
 injection of, oxygen consumption, 1940, 128: 284
 resistance to G forces, 1946, 146: 41
 survival of hemorrhagic shock after injection of, 1945, 144: 216
 therapy, in scalds, 1944, 142: 374
 in traumatic shock, 1943, 140: 200
 in wound shock, 1944, 141: 713
 pretreatment of hemorrhagic shock, 1945, 144: 223
- SALISBURY, G. W. and VANDEMARK, N. L.**, Livability of ejaculated bovine semen, 1945, 143: 692
 —See ASDELL, S. A.
- SALIVA**
 acceleration of blood coagulation by, 1939, 125: 108
 acid-base equilibrium and flow of, 1945, 144: 43
 excretion of iodine in, 1943, 139: 212
 flow and thirst, 1947, 151: 252
 of submaxillary gland, 1941, 134: 446
 nitrogen clearance from, 1942, 137: 715
 stimulation and electrolyte content, 1941, 135: 173
 submaxillary, partition of nitrogen in, 1940, 129: 541
 volume flow at rest, 1943, 139: 225
 volumes secreted during pilocarpine conditioning, 1938, 124: 680
- SALIVARY GLANDS**
 acetylcholine synthesis, 1947, 148: 418
 blood flow in, in vivo and perfused, 1941, 133: 24
 chloride content, 1938, 122: 228
 cholinesterase in, 1947, 148: 677
 conditioned reflex of, 1938, 123: 379
 importance to newborn rats, 1938, 124: 612
 intraglandular acidity, flow, 1945, 144: 48
 oxygen consumption in, shed blood, 1941, 133: 24
 uptake of radioactive bromine, 1941, 134: 109
 water intake, 1941, 132: 517
- SALIVATION**
 dehydroascorbic acid, 1951, 167: 119
 localized stimulation of medulla, 1941, 133: 639
 motor nuclei for, 1942, 136: 723
- SALK, M. R. and WEINSTEIN, R. E.** Intracranial pressure and diuresis, 1939, 126: 316
- SALLMAN, B. and BIRKELAND, J. M.** Relationships in fertilization, 1948, 152: 271
- SALMINE: see PROTAMINE SULFATE**
- SALMON**
 digestion of, in dog, 1941, 135: 12
 growth when fed fat and cholesterol, 1940, 129: 214
 pancreatic tissue of, 1943, 138: 561
- SALSBURY, R. L.: see REID, J. T.**
- SALT: see SODIUM CHLORIDE**
- SALT MIXTURE**
 in diet and water content of tissues, 1938, 121: 381
- SALTER, J.: see ALLARDYCE, J.**
- SALTER, W. T. and RUNELS, ELIZABETH A.** Cardiac contractility, 1951, 165: 520
- SALTZSTEIN, H. C.: see KAULBERSZ, J.**
- SALYRGAN: see MERSALYL**
- SAMPLING**
 frequent, plasma and cell volumes, 1951, 165: 205
- SAMPSON, J. J.: see FRIEDMAN, M.**
- SAMSON, F.: see ROBBARD, S.**
- SAMUELS, A. J., BOYARSKY, L. L., GERARD, R. W., LIBET, B. and BRUST, M.** Phosphorous compounds of nervous system, 1951, 164: 1
- SAMUELS, L. T.: see REINECKE, R. M.**
 — See ROBERTS, S.
- SAMUELSON, G. S., GRIFFIN, GRACE E., MUNTWYLER, E. and SEIFTER, S.** Absorption of blood by peritoneum, 1948, 153: 277
- SANDERS, A.: see SUGARMAN, H.**
- SANDERS, E. K.: see SPROUL, E. E.**
- SANDOW, A. and KARCZMAR, A. G.** Iodoacetate muscular latency changes, 1950, 163: 247
- SANDOZ—DHO-180: see DIHYDROERGOCORNINE**
- SANDWEISS, D. J.: see KAULBERSZ, J.**
- SANGSTER, W., GROSSMAN, M. I. and IVY, A. C.** d-Amphetamine and food intake, 1948, 153: 259
- SAPIRSTEIN, L. A.: see BRANDT, W. L.**
 — See REED, RACHEAL K.
- SAPONIN**
 cytolytic effect of, 1943, 138: 432
 in vivo activity of, 1941, 132: 19
- SARGENT, F.: see FORBES, W. H.**
- SARIS, D.: see SCOTT, J. C.**
- SARKAR, N. K. and MAITRE, S. R.** Cobra venom, 1950, 163: 209
- SARNOFF, S. J., HARDENBERG, ESTHER and WHITTENBERGER, J. L.** Arterial pressure response to valsalva test, 1948, 154: 316
 —, HARDENBERG, ESTHER and WHITTENBERGER, J. L. Electrophrenic respiration, 1948, 155: 1
 —, WHITTENBERGER, J. L. and HARDENBERG, ESTHER. Electrophrenic respiration, 1948, 155: 203
 — See CHATFIELD, P. O.
- SARTORIUS MUSCLES**
 of rabbit, motor units in, 1947, 151: 96
 re-innervation of, 1945, 144: 481
- SARTORIUS, O. W.: see ROEMMELT, J. C.**
- SASLOW, G.** Occurrence of edema and available oxygen, 1938, 124: 360
- SASS-KORTSÁK, A., WANG, F. C. and VERZÁR, F.** Glycogenetic effect of desoxycorticosterone, 1949, 159: 256
 — See PEYSER, E.
- SATTERFIELD, G. H.: see HOLMES, A. D.**
- SATTERFIELD, J.: see GUYTON, A. C.**
- SATTLER, D. G.: see WINTER, C. A.**

- SAUNDERS, J. P. and HIMWICH, WILLIAMINA A. Enzymatic conversion of cyanide to thiocyanate, 1950, 163: 404
- See HIMWICH, WILLIAMINA A.
- SAUNDERS, P. R.: *see* NAKAMURA, K.
- SAUNDERS, R. H.: *see* ADAMS, W. S.
- SAWYER, C. H. Cholinesterases in degenerating and regenerating nerves, 1946, 146: 246
- and EVERETT, J. W. Liver synthesis of serum cholinesterase, 1947, 148: 675
- , MARKEE, J. E. and EVERETT, J. W. Banthine blocks LH release, 1951, 166: 223
- *See* HOLLINSHEAD, W. H.
- SAWYER, M. E. MACK., HAMPEL, C. W. and RING, G. C. Anterior pituitary and sensitivity to adrenine, 1938, 121: 555
- SAWYER, W. H. Frog glomerular circulation, 1951, 154: 457
- Permeability of frog skin, 1951, 164: 44
- , TRAVIS, DOROTHY F. and LEVINSKY, N. G. Frog water-balance principle, 1950, 163: 364
- SAXON, P. A.: *see* PHILLIPS, N. E.
- SAXTON, G. A.: *see* KRAMER, K.
- SAYERS, G., SAYERS, MARION A., PLEKKER, J. D., ORTEN, ALINE U. and ORTEN, J. M. Adrenal medullectomy in hereditary diabetes, 1944, 144: 466
- *See* CHENG, C.-P.
- *See* SAYERS, MARION A.
- *See* WOODBURY, D. M.
- SAYERS, MARION A., SAYERS, G. and LONG, C. N. H. Standardization of hemorrhagic shock in the rat, 1946, 147: 155
- *See* SAYERS, G.
- SCALDS: *see* BURNS
- SCHACHTER, D. and FREINKEL, N. Self-depression of T_{mpah} in dog, 1951, 167: 531
- , FREINKEL, N. and SCHWARTZ, I. L. Plasma-interstitial movement of inulin, 1950, 160: 532
- SCHACHTER, M. Anesthesia and gastric secretion, 1949, 156: 248
- and DWORKIN, S. Cardiovascular action of bile salt, 1942, 137: 599
- SCHACHTER, R. J. Cholinesterase in shock, 1945, 143: 552
- SCHACK, J. A.: *see* ELSTER, S. K.
- SCHAFER PRONE PRESSURE METHOD of artificial respiration at high altitude, 1949, 156: 53
- SCHAFER, N.: *see* BURCH, G. E.
- SCHAIBLE, P. J., BURMESTER, B. R., SYKES, J. F. and THORP, F., Jr. Leg anomaly of chickens confined in small cages, 1944, 141: 274
- SCHARPENBERG, L. G.: *see* WINDLE, W. F.
- SCHecter, A. E., CULLEN, M. L. and FREEMAN, N. E. Traumatic shock after spinal cord transection, 1942, 137: 710
- SCHER, A. M. Measurement of renal blood flow, 1951, 167: 539
- SCHERF, D. and TERRANOVA, R. Auricular flutter and fibrillation, 1949, 159: 137
- SCHERMAN, Q.: *see* HANDLEY, C. A.
- SCHIESS, W. A.: *see* AYER, J. L.
- SCHIFFRIN, M. J. Parathyroid and gastric glands in the dog, 1942, 135: 660
- and GRAY, J. S. Urogastrone and gastric secretion, 1942, 137: 417
- and NASSET, E. S. Response of intestines to food and enterocrinin, 1939, 128: 70
- SCHILLER, A. A. Vitamin P and cutaneous circulation, 1951, 165: 293
- , STRUCK, H. C. and REED, C. I. Rickets and mechanical properties of rat tibiae, 1942, 138: 27
- SCHILLING, R. F. Polycythemia and ephedrine sulfate, 1951, 167: 59
- SCHIRO, H.: *see* GREGERSEN, M. I.
- SCHIZOPHRENIA creatinine-creatinine excretion, 1941, 133: 679
- SCHKLOVEN, N.: *see* ABRAMSON, D. I.
- SCHLEGEL, J. U. Serum choline fluctuation in women, 1949, 158: 345
- SCHLICHTER, J. G.: *see* WILBURNE, M.
- SCHLUTZ, F. W. and MORSE, MINERVA. Blood changes during exercise, 1938, 121: 293
- and MORSE, MINERVA. Serum bicarbonate concentration during exercise, 1938, 122: 105
- *See* MORSE, MINERVA
- SCHMIDT, C. F., DUMKE, P. R. and DRIPPS, R. D. Carotid body reflexes and response to arterial CO_2 , 1939, 128: 1
- , KETY, S. S. and PENNES, H. H. Gaseous metabolism of the monkey brain, 1945, 143: 33
- *See* AVIADO, D. M., JR.
- *See* BRUNER, H. D.
- *See* COMROE, J. H., JR.
- *See* DUMKE, P. R.
- *See* FORBES, H. S.
- *See* KETY, S. S.
- *See* MOYER, J. H.
- SCHMIDT, C. R., BEAZELL, J. M., BERMAN, A. L., IVY, A. C. and ATKINSON, A. J. Secretion of bile, 1942, 137: 120
- SCHMIDT-NIELSEN, B. and SCHMIDT-NIELSEN, K. Sea water utilization by kangaroo rats, 1950, 160: 291
- and SCHMIDT-NIELSEN, K. Water balance in desert rodents, 1950, 162: 31
- *See* SCHMIDT-NIELSEN, K.
- SCHMIDT-NIELSEN, K., SCHMIDT-NIELSEN, B. and SCHNEIDERMAN, H. Salt excretion in desert mammals, 1948, 154: 163
- *See* SCHMIDT-NIELSEN, B.
- SCHNEDORF, J. G. and IVY, A. C. Hypnotoxin theory of sleep, 1939, 125: 491
- *See* COPLEY, A. L.
- *See* MARTIN, J.
- SCHNEIDER RATING insomnia, 1942, 138: 66
- SCHNEIDER, C. L. Desensitization of mice to placental toxin, 1946, 147: 250

- Inactivation of placental toxin by human serum, 1946, 146: 140
- Response to placental toxin in pregnancy, 1946, 147: 255
- Thromboplastin and antithromboplastin, 1947, 149: 123
- SCHNEIDER, E. C. and COLLINS, R. Venous pressure responses to exercise, 1938, 121: 574
- and CRAMPTON, C. B. Respiratory and circulatory reaction of athletes, 1940, 129: 165
- and GRANT, W. C. Water intoxication of the frog, 1942, 136: 42
- SCHNEIDERMAN, A.: *see* AGRESS, C. M.
- SCHNEIDERMAN, H.: *see* SCHMIDT-NIELSEN, K.
- SCHOENE, F. C.: *see* TELFORD, I. R.
- SCHOEPFLE, G. M. Electrotonic potentials at threshold, 1950, 163: 229
- and ERLANGER, J. Axon spike potential under polarization, 1949, 159: 217
- and ERLANGER, J. Local response in single nerve fibers, 1951, 167: 134
- and ERLANGER, J. Temperature and nerve responses, 1941, 134: 694
- *See* ERLANGER, J.
- SCHOLANDER, P. F. and EDWARDS, G. A. Nitrogen clearance, 1942, 137: 715
- *See* IRVING, L.
- SCHÖNHEYDER, F. Prothrombin in chickens, 1938, 123: 349
- SCHREIBER, H.: *see* DILLON, W. H.
- *See* OPDYKE, D. F.
- SCHROEDER, A. R.: *see* BREWER, G.
- SCHROEDER, E. F.: *see* SHIPLEY, R. E.
- SCHROEDER, H. A.: *see* OLSEN, N. S.
- *See* STARR, I.
- *See* STOCK, C. C.
- *See* WILLIAMS, A. H.
- SCHUBMEHL, Q. D.: *see* WARREN, C. O.
- SCHUCHARDT, GRACE S.: *see* BEYER, K. H.
- SCHULTZ, F. H.: *see* WARE, A. G.
- SCHWARTZ, B. M., SMITH, P. K. and WINKLER, A. W. Renal excretion of sulfate, 1942, 137: 658
- SCHWARTZ, I. L. Measurement of extracellular fluid, 1950, 160: 526
- *See* SCHACHTER, D.
- SCHWARTZ, R.: *see* COTLOVE, E.
- SCHWARZ, H. and ZIEGLER, W. M. Para-quinones and hypertensive blood pressure, 1945, 143: 177
- SCHWARZSCHILD, M. M.: *see* KISCH, B.
- SCHWEIGERT, B. S. and PEARSON, P. B. Folic acid in blood, 1947, 148: 319
- , TEPLY, L. J., GREENUT, I. T. and ELVEHJEM, C. A. Effect of succinyl sulfathiazole in dextrin diet, 1945, 144: 74
- SCHWEIZER, MALVINA, GAUNT, R., ZINKEN, NAOMI and NELSON, W. O. Adrenal cortex and anterior pituitary in diabetes, 1941, 132: 141
- SCHWERMA, H., IVY, A. C., BURKHARDT, W. L. and THOMETZ, A. F. Resuscitation from obstructive asphyxia, 1949, 156: 145
- SCHWIND, F. J.: *see* BERNTHAL, T.
- SCIATIC NERVES
 - action potential, DCA-treated rats on low potassium, 1947, 150: 453
 - triturus toxin, 1947, 150: 325
 - chloride of, 1938, 122: 228
 - cholinesterase of, 1945, 144: 82; 1946, 146: 250
 - comparison of excised and circulated nerve, 1940, 130: 481
 - deep-freezing, 1949, 156: 333
 - epinephrine-like substances in, 1947, 148: 461
 - excitability and carbon dioxide tension, 1938, 122: 275
 - ligation, hypothalamic potentials, 1946, 146: 633
 - respiration of, 1942, 136: 53
 - responses from cerebral cortex, 1941, 131: 718
 - resting potential, metabolic changes of, 1948, 153: 93
 - section and suture of, muscle, 1947, 150: 559
 - stimulation in production of shock, 1947, 148: 294
 - stimulation of hypothalamic potentials, 1946, 146: 632
- SCILLIROSIDE
 - acetylcholine metabolism, 1947, 151: 346
- SCOPOLAMINE: *see* HYOSCINE
- SCOTOPIC CONDITIONS
 - peripheral visual acuity, 1946, 146: 22
- SCOTT, C. C. Total biliary fistula without bile therapy, 1945, 144: 626
- , SCOTT, W. W. and LUCKHARDT, A. B. Alcohol and the hunger sense, 1938, 123: 248
- *See* SCOTT, V. B.
- *See* SCOTT, W. W.
- SCOTT, D. A. and FISHER, A. M. Pancreas and liver of zinc-fed cats, 1938, 121: 253
- SCOTT, F. H.: *see* BOYLE, R. W.
- SCOTT, H.: *see* WENER, J.
- SCOTT, J. C. and REED, E. A. E.C.G. and vagus, 1951, 167: 441
- , BAZETT, H. C. and MACKIE, G. C. Climate and cardiac output and circulation in man, 1940, 129: 102
- , REED, E. A., SARIS, D. and RAMIREZ, H. P. R. Thorax pressure reflex, 1948, 154: 428
- *See* BAZETT, H. C.
- *See* BURTON, A. C.
- SCOTT, V. B., COLLIGNON, U. J., BUGEL, H. J. and JOHNSON, G. C. Pancreatic secretion and blood sugar, 1941, 134: 208
- , SCOTT, C. C. and BUGEL, H. J. Fasting pancreatic secretion and hunger, 1940, 131: 60
- SCOTT, W. W., SCOTT, C. C. and LUCKHARDT, A. B. Blood sugar and hunger periods, 1938, 123: 243
- *See* HUGGINS, C.
- *See* SCOTT, C. C.
- SCOW, R. O. and FOGLIA, V. G. Thyroidectomy and glucose metabolism, 1951, 166: 541
- SCUDDER, J., SMITH, MARGARET E. and DREW, C. R. Plasma potassium of cardiac blood at death, 1939, 126: 337
- SCURVY
 - ascorbic acid, phosphatase and calcium of blood in, 1940, 130: 310
 - bone and tissue phosphatase in, 1942, 135: 487
 - peripheral vascular system in, 1947, 149: 465

SEA BASS

plasma prothrombin level in, 1939, 125: 297

SEA WATER

ability of kangaroo rats to utilize, 1950, 160: 291
dogfish heart rate, 1940, 129: 294
rats, 1943, 140: 25
toxicity of, 1950, 163: 370

SEAL

arterial blood pressure during diving, 1942, 135: 559
renal hemodynamics compared to dog and man, 1944, 142: 358
toxicity of sea water, 1950, 163: 370
vitamin A reserves of, 1938, 123: 695

SEALANDER, J. A., JR. Temperature, starvation and adrenal weight, 1950, 163: 92

SEALOCK, R. R., MURLIN, J. R. and DRIVER, R. L. Alkylresorcinols and intestinal absorption of insulin, 1939, 128: 92

SEARS, W. N.: *see* COOK, S. F.

SEASONS

blood pressure in dogs, 1939, 128: 235
blood volume, 1940, 129: 73; 1941, 133: 128
fluid volumes in monkeys, 1947, 148: 457
food consumption, growth, 1945, 143: 428
gonadotropic content of pituitary, 1940, 128: 496
polynuclear count, 1938, 122: 520
variation, in response to pituitrin, 1939, 127: 328
in serum choline, 1949, 158: 349

SEAY, P.: *see* SWINGLE, W. W.

SEBRELL, W. H.

— *See* HUNDLEY, J. M.

— *See* KORNBERG, A.

— *See* SHOCK, N. W.

SECONAL

carbohydrate metabolism, 1938, 122: 759

SECRETIN

excretion after pancreatic duct ligation, 1950, 160: 115

isolated pancreatic tissue, 1949, 157: 281

isolation of, 1938, 124: 427

pancreatic response to, 1941, 132: 305; 1941, 134: 245

pancreatic secretion, 1948, 154: 358

protein constituents of pancreatic juice, 1945, 145: 144

release in animals with transplanted pancreas, 1951, 164: 527

response of Brunner's glands to, 1939, 128: 121

SECRETIN AND PANCREOZYMIN: *see* SI

SECRETINASE

of blood serum, 1941, 133: 121

of urine, 1941, 134: 245

SEDIMENTATION RATE

changes in hematocrit and, due to lipemia and heparin, 1951, 164: 798

following exercise, 1945, 144: 224

SEEGERS, W. H. Nitrogen excretion on a nitrogen-free diet, 1938, 123: 233

— Protein anabolism and catabolism on N-free diet, 1938, 121: 231

— and SMITH, H. P. Activity of purified thrombin, 1942, 137: 348

—, ANDREWS, EDNA B. and McCLAUGHRAY, R. I.

Derivatives from purified prothrombin, 1951, 164: 722

— *See* BRINKHOUS, K. M.

— *See* FAHEY, J. L.

— *See* GUEST, M. M.

— *See* LOOMIS, E. C.

— *See* MURPHY, R. C.

— *See* WARE, A. G.

SEELY, R. D. Inspiration and stroke volumes, 1948, 154: 273

— Plasma regeneration and N balance in hypoproteinemia, 1945, 144: 369

— *See* LEATHEN, J. H.

— *See* OPDYKE, D. F.

SEGALOFF, A. and NELSON, W. O. Growth and development after thymectomy, 1940, 130: 671

— and NELSON, W. O. Thymus-adrenal relationship, 1940, 128: 475

SEGUIN, PAULETTE: *see* HAY, ELEANOR C.

SEIBEL, R. E.: *see* HAYNES, FLORENCE W.

SEIBERT, R. A.: *see* HUGGINS, R. A.

SEIFTER, S.: *see* SAMUELSEN, G. S.

SELDIN, D. W. and TARRIL, R. Hypertonic solutes and electrolyte exchanges, 1949, 159: 160

— *See* SIMS, E. A. H.

SELF SELECTION OF FOOD

adrenalectomy, 1943, 139: 70

coprophagy as a source of the vitamin B complex, 1945, 143: 344

environmental temperature, 1947, 150: 331

growth, reproduction, 1938, 122: 734

individual variation in animals, 1938, 122: 741

of salt solution and water, 1949, 156: 233

sodium chloride appetite in pregnancy, 1938, 121: 185

thiamin deficiency, 1938, 124: 596

thiamin and fructose utilization by, 1948, 154: 499

thyroxin, 1947, 150: 336

vitamin B deficiency, 1939, 127: 199

SELIGMAN, A. M. and DAVIS, W. A. Crossed phrenic phenomenon, 1941, 134: 102

—, ALEXANDER, B., FRANK, H. A. and FINE, J. Traumatic shock XVI, 1948, 152: 531

—, NACHLAS, M. M. and MOLLOMO, MARIE C. Serum lipase and esterase, 1949, 159: 337

— *See* GLOTZER, P.

— *See* PERSKY, L.

SELKURT, E. E. Renal blood flow and clearance in hemorrhagic shock, 1946, 145: 699

— Renal blood flow and effective arterial pressure, 1946, 147: 537

— Renal clearance after complete ischemia of kidney, 1945, 144: 395

— Renal clearance of ascorbic acid, 1944, 142: 182

— Renal ischemia, clearances and blood flow, 1946, 145: 376

— and HOUCK, C. R. NaCl and KCl in renal clearance of ascorbic acid, 1944, 141: 423

— and POST, R. S. Sodium and renal clearance, 1950, 162: 639

—, ALEXANDER, R. S. and PATTERSON, MARY B. Mesenteric circulation in hemorrhagic shock, 1947, 149: 732

- , HALL, P. W. III and SPENCER, M. P. Graded arterial pressure and renal clearance, 1949, 159: 369
- , HALL, P. W. III and SPENCER, M. P. Renal venous pressure, 1949, 157: 40
- , TALBOT, L. J. and HOUCK, C. R. Estrogen administration and ascorbic acid excretion, 1943, 140: 260
- See HALL, P. W., III
- SELLE, W. A. Glucose and gasping pattern of anoxic young animals, 1944, 141: 297
- SELLERS, A. L., GOODMAN, H. C., MARMORSTON, JESSIE and SMITH, MARGARET. Proteinuria in the rat, 1950, 163: 662
- , SMITH, S., III, GOODMAN, H. C. and MARMORSTON, JESSIE. Diuresis due to renin, 1951, 166: 619
- SELLERS, E. A. and YOU, S. S. Thyroid in a cold environment, 1950, 163: 81
- , REICHMAN, S. and THOMAS, N. Acclimatization to cold, 1951, 167: 644
- , REICHMAN, S. and YOU, S. S. Acclimatization to cold, 1951, 167: 651
- , YOU, S. S. and THOMAS, N. Acclimatization in rats, 1951, 165: 481
- See YOU, S. S.
- SELTZER, C. C. Body build and oxygen metabolism, 1940, 129: 1
- SELYE, H. Adaptation energy, 1938, 123: 758
- Adaptation to estrogen overdosage, 1940, 130: 358
- Alarm reaction and adrenaline lung edema, 1938, 122: 347
- and DOSNE, C. Cortin after partial and complete hepatectomy, 1940, 128: 729
- and DOSNE, C. Desoxycorticosterone and tissue chlorides, 1941, 132: 522
- See CLARKE, ELEANOR
- See FORTIER, C.
- SELZER, A.: see FRIEDMAN, M.
- SEMEN
- ascorbic acid of, 1941, 133: 85
- chemical composition of, 1942, 136: 467
- phosphatase, in consecutive ejaculates, 1948, 153: 235
- thyroxine, temperature, 1946, 147: 320
- SEMINAL FLUID
- hydrogen ion concentration of, 1942, 136: 539
- SEMINAL VESICLES
- chemical composition of secretion, 1942, 136: 469
- pituitary secretion, 1939, 128: 173
- size of adrenals, 1945, 144: 654
- weight, androgens, 1948, 154: 461
- estrogens, 1947, 151: 127
- progesterone, 1942, 135: 570
- steroids, 1944, 142: 315; 1946, 145: 551
- testosterone, 1943, 140: 232
- SEMITENDINOSUS MUSCLES
- water content of, 1942, 135: 434
- SEMPLE, R. E.: see ALLEN, T. H.
- See CIZEK, L. J.
- SENIOR, FANNY A.: see ABRAMSON, D. I.
- SENNETT, L.: see PREC., O.
- SENSORY FIBERS: see NERVE FIBERS.
- SENSORY GANGLIA
- cholinesterase content, 1945, 144: 82

SERUM

- absorption of autogenous, from gut, 1945, 144: 457
- acetylcholine synthesis, 1947, 148: 418
- acid-base balance in hyperthermia, 1938, 123: 550
- antigonadotrophic and progonadotrophic substances in, 1950, 162: 393
- antiproteolytic activity, peptic ulcers, 1950, 160: 348
- bone marrow cultures, 1948, 153: 483
- capacity to detoxify placental toxin during pregnancy, 1946, 147: 256
- concentrated, plasma volume, serum protein, 1938, 124: 791
- dehydration, 1944, 142: 445
- diuresis, 1944, 142: 445
- dialysate, acetylcholine synthesis, 1947, 148: 418
- enzymatic inactivation of cholecystikinin by, 1941 134: 733
- exchange between and erythrocytes, 1940, 128: 639
- exercise, 1940, 128: 420
- hemolytic activity of snake venom, 1949, 158: 77
- human bone marrow cells, 1948, 153: 496
- inactivation of placental toxin by, 1946, 146: 143
- movement of inorganic phosphorus between erythrocytes, 1947, 149: 679
- neoplastic cell culture, 1948, 153: 492
- proteolytic activity of, 1951, 166: 485
- respiration of bone marrow in, 1940, 128: 457
- stimulation of smooth muscle by, 1944, 142: 14
- treatment of hemorrhagic shock, 1945, 144: 223
- ultrafiltrate, acetylcholine synthesis, 1947, 148: 418
- volume, relative corpuscle volume, 1949, 156: 12
- SERUM, CONSTITUENTS OF: see under name of constituent
- SERUM, HORSE
- blood pressure, 1944, 140: 633
- utilization of parenterally administered by rat, 1940, 128: 545
- SETLOW, R. B.: see HELLER, J. H.
- SEVERANCE, R.: see HANDLEY, C. A.
- SEVRINGHAUS, E. L.: see HELLER, C. G.
- See LAUSON, H. D.
- SEWELL, MARIANA B.: see BOOKER, W. M.
- SEX
- adrenal cortex, 1945, 144: 652
- alloxan diabetes, 1951, 166: 364
- alveolar CO₂ tension, 1941, 133: 610
- anabolic property of testosterone propionate, 1950, 160: 62
- biotin deficiency, 1950, 161: 1
- blood pressure, 1945, 145: 298
- body water, 1950, 162: 313
- bone growth, 1946, 146: 588
- clot resistance, 1949, 158: 381
- gastrointestinal response to glucose ingestion, 1945, 144: 617
- glucose metabolism, 1951, 166: 541
- intracellular fluid, 1950, 162: 319
- islets of Langerhans, 1948, 152: 36
- minimal requirements for vitamin E, 1940, 131: 268
- physical capacity, 1947, 149: 197
- proteinuria in rat, 1950, 163: 662

SEX

- resistance to anoxia, 1945, 145: 192
- to G forces, 1946, 146: 39
- response of pigeon crop-sac to prolactin, 1939, 127: 422
- single massive dose of vitamin D, 1947, 149: 338
- sleep motility, 1939, 127: 480
- thiourea intoxication and, 1945, 144: 742
- thyroid secretion rate, 1947, 150: 688
- vitamin E requirement, 1940, 131: 263

SEX FUNCTIONS

- retention of after isolation of anterior pituitary lobe, 1948, 152: 591

SEXUAL BEHAVIOR

- ablation of neocortex, 1939, 127: 374
- central nervous system lesions on, 1939, 126: 762
- hypothalamic lesions, 1942, 137: 746
- masculine, hypothalamic lesions, 1941, 133: 551

SEXUAL DEVELOPMENT

- electrical stimulation of cervix, 1951, 167: 599
- temperature, thyroid, 1950, 162: 24

SEXUAL SKIN

- water distribution in baboon, 1940, 131: 325

SHADLE, O. W.: *see* LAWSON, H. C.

— *See* MOORE, J. C.

— *See* OVERBEY, D. T.

SHAFFER, G. D. and SKOW, R. K. Death of fatigued neurons and temperature, 1938, 122: 551

SHAFFER, C. B., CRITCHFIELD, FRANCES H. and CARPENTER, C. P. Excretion and distribution of polyethylene glycols, 1948, 152: 93

— *See* DRILL, V. A.

SHAFFRATH, M. D.: *see* RALSTON, H. J.

SHAFIROFF, B. G. P. and BIEMAN, J. R. Absorption from obstructed gall bladder, 1940, 129: 703

—, DOUBILET, H., BARCHAM, I. S. and Co TUI. Intrahepatic pressure and bile resorption, 1944, 141: 480

—, DOUBILET, H., RUGGIERO, W. F., PREISS, A. P. and Co TUI. Bile resorption in obstructive jaundice, 1942, 137: 97

—, DOUBILET, H., SIFFERT, R. and Co TUI. Hemorrhage and coagulation time of blood and lymph, 1943, 138: 753

SHAM FEEDING

- gastric motor activity, 1950, 162: 447
- stimulation of gastric mucin, 1949, 158: 194

SHAM RAGE

- blood sugar level following frontal lobectomy, 1947, 149: 246

vago-insulin system, 1941, 133: 532

SHANER, GRACE A.: *see* BEYER, K. H.

SHANES, A. M. Resting potential of nerve, 1948, 153: 93

SHANNON, E. W. and WIGGERS, C. J. Dynamics of frog and turtle hearts, 1940, 128: 709

SHANNON, J. A. Renal tubular reabsorption of xylose, 1938, 122: 775

— Urea excretion during forced diuresis, 1938, 122: 782

— and FISHER, S. Renal tubular reabsorption of glucose, 1938, 122: 765

—, FARBER, S. and TROAST, L. Glucose T_m, 1941, 133: 752

SHAPIRO, S. and HOAGLAND, H. Phosphate, NA and K determination, 1948, 153: 428

— *See* STONE, D.

SHAPIRO, S. H.: *see* BEYER, K. H.

SHARK

respiration in, 1945, 145: 135

SHARP, E. A.: *see* IRVIN, J. L.

SHAY, H. *See* GROSSBERG, A. L.

— *See* KOMAROV, S. A.

— *See* LORBER, S. H.

— *See* PASCHIKIS, K. E.

SHEARD, C.: *see* ROTH, GRACE M.

SHEATZ, G. C. and WILDE, W. S. Capillary permeability, 1950, 162: 687

SHEDLOVSKY, L., Belcher, D. and LEVENSTEIN, I. Survival of sperm motility, 1942, 136: 535

SHEEHAN, D. and LABATE, J. S. Nicotine and nerve stimulation of uterus, 1942, 137: 456

— *See* LABATE, J. S.

SHEEP (includes LAMB)

alloxan diabetes in, 1948, 154: 94

animal protein factor concentrate fed to, 1950, 163: 418

anoxia in, 1951, 167: 559

anti-gonadotropic hormone, 1948, 153: 21

blood flow in umbilical vessels, 1951, 166: 25

blood sugar and hemoglobin values in, 1951, 167: 559

digestion of, in dog, 1941, 135: 12

heparin and plasma coagulation, 1943, 139: 614

kidney, as source of renin, 1942, 136: 733

lysis of erythrocytes by snake venom, 1949, 158: 81

metabolism of, 1950, 162: 434

potassium response to epinephrine in, 1941, 132: 9

prothrombin and fibrinogen deficiency in, 1951, 165: 188

ram, effect of temperature and thyroid on semen of, 1946, 147: 320

sustained pressor principle from, 1948, 153: 344

thyroid status, ECG and blood picture, 1948, 152: 100

utilization of urea by, 1948, 153: 41

vitamin B of whole blood, 1950, 163: 79

wild, blood sugar level of, 1950, 162: 438

x-ray diffraction pattern of humerus of, 1945, 144: 635

SHEFFLER, P. W.: *see* KAPLAN, E.

SHELDON, W. F.: *see* FOLTZ, E. L.

SHELINE, G. E., CHAIKOFF, I. L. and MONTGOMERY, M. L. Elimination of cobalt in pancreatic juice and bile, 1946, 145: 285

— *See* Montgomery, M. L.

SHELLEY, W. B. and HEMINGWAY, A. Thermal polypnea and energy metabolism, 1940, 129: 623

—, CODE, C. F. and VISSCHER, M. B. Phosphocreatine of heart in cardiac hypertrophy, 1943, 138: 652

— *See* Horvath, S. M.

— *See* NELSON, N.

SHENKIN, H. A.: *see* McCANN, S. McD.

— *See* ROSENTHAL, O.

See page iii for guide to use of index

- See YEAKEL, ELEANOR H.
- SHEPPARD, C. W., JORDAN, G. and HAHN, P. F. Radioactive colloidal gold injections, 1951, 164: 345
- SHEPPARD, RUTH: see INGLE, D. J.
- SHERIDAN, EUGENIA T.: see FENN, W. O.
- SHERLOCK, SHEILA. Adrenaline and carbohydrate metabolism, 1949, 157: 52
- SHERMAN, H. C.: see CAMPBELL, H. L.
- SHERRY, S., FRIEDMAN, G. J., PALEY, K., BERKMAN, J. and RALLI, ELAINE P. Renal excretion of vitamin C, 1940, 130: 276
- SHERWOOD, CATHERINE R. see DRILL, V. A.
- SHERWOOD, T. C. Amniotin and heat production after thyroidectomy, 1938, 124: 114
- SHETTLER, L. B. Viability and metabolism of spermatozoa, 1940, 128: 408
- See LAMAR, J. K.
- SHIDEMAN, F. E. and RENE, R. M. Succinate oxidation and renal transport mechanisms, 1951, 166: 104
- SHIELDS, E. H.: see LANDIS, E. M.
- SHIH, H. E., KENNEDY, JANET and HUGGINS, C. Chemical composition of uterine secretions, 1940, 130: 287
- SHINER
oxygen consumption of retina in, 1943, 139: 13
- SHINKLE, VIRGINIA: see PITTMAN, MARTHA S.
- SHINOWARA, G. Y. Enzyme studies on human blood, 1949, 156: 458; 1949, 159: 303
- SHIPLEY, ELVA G. and DANLEY, KATHERINE S. Pituitary and ovarian dysfunction in diabetes, 1947, 150: 84
- and MEYER, R. K. Diabetes in parabiotic rats, 1947, 148: 185
- , MEYER, R. K. and BIDDULPH, C. Transfer of androgens in parabiotic rats, 1943, 140: 230
- See MCSHAN, W. H.
- See MEYER, R. K.
- SHIPLEY, R. A. Pituitary and metabolism of glucose and acetone bodies, 1944, 141: 662
- and FRY, EDITH G. Adrenal cortical compounds and ketosis, 1942, 135: 460
- and HUMEL, E. J., JR. Insulin and metabolism of liver slices, 1945, 144: 51
- , DORFMAN, R. I. and HORWITT, B. N. Cortin-like material in normal urine, 1943, 139: 742
- SHIPLEY, R. E. and GREGG, D. E. Blood flow in vessel with external constriction, 1944, 141: 289
- and GREGG, D. E. Cardiac response to stimulation of stellate ganglia, 1945, 143: 396
- and HELMER, O. M. Sustained pressor principle, 1947, 151: 606; 1948, 153: 341
- and STUDY, R. S. Changes in renal blood flow, 1951, 167: 676
- , GREGG, D. E. and SCHROEDER, E. F. Flow patterns in peripheral arteries, 1943, 138: 718
- , GREGG, D. E. and WEARN, J. T. Factors of error in application of thermostromuhr, 1942, 136: 263
- , HELMER, O. M. and KOHLSTAEDT, K. G. Pressor principle in blood, 1947, 149: 708
- See GREGG, D. E.
- See HELMER, O. M.
- See PRITCHARD, W. H.
- See STUDY, R. S.
- SHIVERING
as aid in temperature control, 1943, 139: 58
body temperature regulation and in birds, 1942, 136: 621
device for recording, respiratory movements, 1940, 128: 739
movements, recording of, 1945, 145: 266
response of dogs to cold environment, 1940, 128: 742
role of proprioceptors in, 1945, 145: 264
venous pressure, respiration, rectal temperature, 1947, 151: 226
- SHLESER, I. H. and ASHER, R. Adrenal cortical extract and pargoline in shock, 1942, 138: 1
- and FREED, S. C. Adrenal cortical extract and capillary permeability, 1942, 137: 426
- See KATZ, L. N.
- SHOCK
across exposed heart and fibrillation, 1951, 165: 179
action of desoxycorticosterone in, 1942, 137: 81
adrenal steroids, 1941, 134: 426
as prophylactic in, 1941, 134: 426
blood constituents in, 1945, 145: 97
blood histamine, 1945, 143: 321
body temperature and O₂ consumption in, 1947, 149: 450
callicrein, 1944, 142: 519
therapy of, 1944, 142: 535
cardiogenic, blood volume changes in, 1951, 166: 603
circulatory failure in adrenal insufficiency, 1938, 123: 659
comparison of hemorrhagic and traumatic, 1947, 148: 271
coronary blood flow, 1947, 148: 593
electrical injury, 1948, 154: 38
electroconvulsive, impedance during, 1949, 156: 317
energy transformations during, 1946, 146: 269
epinephrine, 1938, 123: 668; 1945, 143: 135; 1950, 162: 230
factor producing, transmission in blood, 1945, 143: 442
head injury, 1948, 155: 92
hydatid fluid, 1945, 143: 308
hyperglycemia following, 1944, 142: 639
intramuscular pressure changes in, 1945, 143: 89
irreversible, diagnostic criteria for, 1946, 146: 436
mechanisms involved in, 1942, 137: 280; 1944, 142: 299
myocardial changes following, 1951, 164: 832
peripheral and cardiac events in, 1944, 140: 677
plasma protein in, 1950, 161: 101
portal hypertension, 1950, 160: 437
prevention of circulatory failure, 1941, 132: 249
prolonged adrenaline injection, 1941, 131: 545
renal factor in, 1951, 166: 658
renin and angiotonin in, 1944, 141: 134
sequence of events in, 1942, 136: 431
spinal, 1940, 129: 515
vascular, in heart-lung preparation, 1943, 138: 212
vasoconstrictor substances in blood, 1943, 139: 386

SHOCK, ANAPHYLACTIC: *see* ANAPHYLAXIS

SHOCK, BURN

- adrenal cortical hormones in, 1945, 145: 204
- body temperature and O₂ consumption in, 1947, 149: 453
- capillary permeability to horse protein in, 1943, 140: 1
- DCA, ACE, 1950, 160: 83
- infusion fluid, 1947, 150: 429
- metabolic changes in, 1945, 144: 661
- muscular activity and bleeding volume, 1946, 146: 367
- redistribution of K, Na and H₂O in, 1947, 151: 155
- vasoconstrictor substances in blood after, 1943, 139: 386

SHOCK, CIRCULATORY

- after release of tourniquet, 1942, 138: 156
- nervous factor in, 1942, 137: 362

SHOCK, ELECTRIC

- acetylcholine of brain, 1950, 162: 472
- cardiac resuscitation, 1951, 164: 601

SHOCK, EXPERIMENTAL

- adrenal cortical preparation in, 1943, 139: 481
- blood-borne vasotropic substances in, 1947, 150: 239
- following venous occlusion, 1942, 137: 589; 1945, 143: 589
- loss of fluid protein from blood in, 1944, 141: 573
- produced by chymotrypsin, 1945, 143: 644
- renal extraction of oxygen in, 1945, 145: 340
- therapy in, 1944, 141: 713

SHOCK, GRAVITATIONAL

- blood composition, 1944, 141: 165
- resistance factors for, 1951, 165: 539
- tissue changes in, 1947, 149: 369

SHOCK, HEMORRHAGE-HYPOTENSION

- local anesthesia, 1945, 143: 122; 1945, 143: 127

SHOCK, HEMORRHAGIC

- acidosis, and dehydration in, 1945, 144: 505
- alkalinizing agents, 1946, 146: 431
- amino acid metabolism in, 1948, 152: 531
- apparatus for producing in rat, 1951, 166: 659
- ascorbic acid, 1946, 147: 598
- behavior of spleen in, 1943, 138: 205
- blood changes in, 1944, 140: 737
- blood flow and vascular resistance in, 1946, 147: 685
- blood volume in, 1945, 143: 249
- mortality rate in, 1947, 148: 166
- brain metabolism, 1945, 144: 334
- cardiac ejection curves during, 1945, 144: 548
- cardiac and vascular factors in, 1942, 136: 421
- cardiac output and peripheral resistance, 1944, 140: 677
- cardiovascular system, 1945, 144: 206
- circulation, 1947, 148: 291
- coronary flow in, 1947, 148: 726
- disturbances in blood chemistry during, 1947, 149: 52
- efficacy of cell-free fluid replacement in, 1945, 144: 217
- epinephrine, 1945, 144: 600
- extracellular water of heart in, 1949, 157: 254
- failure of transfusion in, 1945, 144: 91

femoral arterial pulse in, 1947, 150: 272

gelatin solution, 1943, 140: 431

hemoconcentration following, 1943, 138: 450

importance of hypotension and acidosis in, 1946, 146: 437

lactose and glucose utilization by certain organs, 1945, 144: 233

liver metabolism 1945, 144: 674

liver water and electrolytes in, 1945, 145: 32

mechanisms involved in, 1944, 142: 299

mesenteric circulation in, 1947, 149: 732

metabolism of cerebral cortex, 1945, 144: 683

morphine, 1947, 148: 270

movements of body water in, 1946, 147: 306

muscle tonus in, 1945, 143: 120

neosynephrine and survival in, 1944, 142: 578

nephrectomy and, urea synthesis, 1946, 147: 165

oxygen consumption in, 1948, 153: 71

plasma fibrinogen in, 1950, 162: 619

plasma protein replacement after, 1942, 136: 301

plasma prothrombin activity in, 1951, 167: 499

portal pressure gradients in, 1946, 146: 196

production and prognosis, 1945, 143: 198

and treatment, 1948, 154: 297

reactions of aorta in, 1943, 138: 491

renal blood flow and clearance in, 1946, 145: 702

renal function, 1945, 145: 314

renal humoral mechanism in, 1942, 136: 276

renin-angiotonin system, 1944, 140: 499

sodium pentobarbital, 1950, 162: 243

standardization of, 1945, 143: 256; 1946, 147: 155; 1946, 147: 591; 1949, 156: 202

therapeutic effect of pectin solution, 1943, 140: 326

therapy in, 1944, 142: 299; 1949, 156: 210

on tissue metabolites, 1946, 147: 446

transfusion therapy in, 1949, 156: 191

traumatic procedures and survival in, 1945, 144: 595

use of cholinesterase in, 1945, 143: 552

vasoconstriction in, 1948, 153: 511

vasoconstrictor substances in blood after, 1943, 139: 386

ventricular activity during and after, 1946, 147: 270

whole blood plus NaHCO₃ and glucose in, 1944, 141: 209

SHOCK, ISCHEMIA

phosphate turnover in muscle, 1945, 144: 437

urine flow in, 1947, 151: 554

SHOCK, N. W. Age changes and sex differences in alveolar CO₂, 1941, 133: 610

— Fetal aspiration of amniotic fluid, 1941, 134: 769

— Menarche and basal physiological functions, 1943, 139: 288

— and SEBRELL, W. H. Nicotinic acid and work output of perfused muscle, 1946, 146: 52

— and SEBRELL, W. H. Pantothenate and work output of perfused muscles, 1944, 142: 274

— and SEBRELL, W. H. Vitamins B and work output of perfused muscle, 1944, 142: 265

— and SEBRELL, W. H. Work output of perfused muscle with pyridoxine, 1946, 146: 399

— and SOLEY, M. H. Oxygen tension and respiratory response to CO₂, 1940, 130: 777

INDEX TO VOLUMES 121-167

- and SOLEY, M. H. Response to CO₂ under lowered O₂ tension, 1942, 137: 256
 — See SOLEY, M. H.
- SHOCK, PEPTONE: *see* ANAPHYLAXIS
- SHOCK, TOURNIQUET
 blood changes in, 1946, 147: 66
 body temperature and O₂ consumption in, 1947, 149: 450
 factors concerned with, 1945, 144: 494
 sodium therapy in, 1947, 148: 534
 venous occlusion and heart size, 1945, 143: 80
 venous occlusion of leg, 1941, 134: 755
- SHOCK, TRAUMATIC
 accompanied by splenectomy, 1947, 148: 116
 adrenocortical extract in, 1943, 139: 460
 afferent nervous factor in, 1947, 148: 549
 after spinal cord transection, 1942, 137: 710
 amino acid metabolism in, 1948, 152: 531
 blood pressure, hematocrit, plasma protein, 1942, 137: 292
 blood volume and mortality rate in, 1947, 148: 168
 body temperature, 1947, 150: 694
 changes in muscle phosphates, 1944, 142: 290
 circulation, 1947, 148: 292
 circulatory failure in, 1942, 138: 156
 circulatory reactions in, 1943, 139: 123
 cyanide circulation time in, 1947, 148: 70
 disturbances in blood chemistry in, 1947, 149: 52
 due to Noble-collip drum, 1943, 139: 123; 1945, 145: 95
 extracellular fluid in, 1947, 148: 201
 fluid distribution in, 1951, 167: 517
 fluorescein circulation time in, 1947, 148: 70
 following adrenalectomy, 1938, 124: 22
 following venous occlusion, 1945, 143: 589
 gastro-intestinal activity, 1942, 136: 35
 heart rate, blood pressure, 1947, 148: 101
 hemorrhagic shock, 1945, 144: 595
 heparin, 1947, 150: 698
 intramuscular pressure changes in, 1954, 143: 94
 isotonic NaCl and glucose in, 1943, 140: 67
 local fluid loss in, 1944, 142: 494; 1945, 144: 432
 morphine, 1947, 148: 269
 nervous factor in, 1944, 140: 490; 1944, 141: 54
 plasma fibrinogen in, 1950, 162: 619
 plasma potassium changes in, 1943, 138: 499
 plasma prothrombin activity in, 1951, 167: 499
 potassium, 1943, 139: 686
 pressor response to adrenaline in, 1940, 130: 623
 produced by bullet wounds, 1947, 148: 111
 by muscle contusion, 1947, 148: 98
 radioactive iodine and thyroid gland in, 1951, 164: 35
 redistribution of K, Na and H₂O in, 1947, 151: 155
 release of adenylic acid, 1947, 149: 240
 renal function, 1945, 145: 314
 role of kidney in, 1947, 150: 702
 serum phosphate and calcium in, 1943, 139: 299
 serum potassium in, 1947, 148: 449
 therapeutic measures for, 1943, 140: 197; 1945, 145: 152
 therapy in, 1942, 138: 1; 1943, 139: 313
- toxic factor in, 1947, 149: 112
 toxicity of thoracic duct fluid in, 1943, 139: 307
 transcapillary exchange of sodium in, 1944, 142: 407
 use of cholinesterase in, 1945, 143: 552
 of saline after, 1945, 145: 152
 vasoconstriction in, 1950, 161: 125
 vasoconstrictor substances in blood after, 1943, 139: 386
 VEM and VDM mechanisms in, 1951, 164: 91
- SHONYO, E. S.: *see* MANN, F. D.
- SHORE, R., HOLT, J. P. and KNOEFEL, P. K. Cardiac output by Fick procedure, 1945, 143: 709
- SHORR, E.: *see* BAEZ, S.
- See FURCHGOTT, R. F.
- See ZWEIFACH, B. W.
- SHRIBER, W. J.: *see* HEGNAUER, A. H.
- SHUGARMAN, P. M.: *see* STEIN, A. M.
- SHULER, R. H., ENSOR, C. R., GUNNING, R. E., MOSS, W. G. and JOHNSON, V. Arterial blood pressure fluctuations with respiration, 1942, 137: 620
- , KUPPERMAN, H. S. and HAMILTON, W. F. Blood pressure measurements in rats, 1944, 141: 625
- SHULMAN, I.: *see* MULINOS, M. G.
- SHUMACKER, H. B., JR.: *see* FLEISCHMANN, W.
- SHUR, E. I.: *see* FEDOROV, N. A.
- SHWACHMAN, H.: *see* GOULD, B. S.
- SI (PANCREOZYMIN AND SECRETIN)
 duodenal secretion, 1949, 158: 126
 volume and enzyme content of pancreatic secretion, 1944, 141: 510
- SIII
 polysaccharide, comparison with T-1824 as measure of plasma volume, 1950, 163: 517
- SICHEL, F. J. M. and PROSSER, C. L. Refractory period and summation in muscle, 1940, 128: 203
- SIDMAN, R. L. and SINGER, M. Nerve activity in limb regeneration, 1951, 165: 257
- SIDWELL, A. E., JR.: *see* KRAUSE, A. C.
- SIEBENS, A. A., HOFFMAN, B. F., GILBERT, J. L. and SUCKLING, E. E. Excitability of dog's ventricle, 1951, 166: 610
- See BROOKS, C. McC.
- See HOFFMAN, B. F.
- See ORIAS, O.
- See SUCKLING, E. E.
- SIEGAL, S.: *see* BENDER, M. B.
- SIEGEL, P. S., ALEXANDER, I. E. and STUCKEY, HELEN L. Specific gravity of blood plasma in water privation, 1947, 150: 729
- SIEGFRIED, E. C.: *see* BEAN, J. W.
- SIEMS, L. L. and KOSMAN, A. J. Nerve lesion and blood flow, 1949, 156: 185
- SIFFERT, R.: *see* SHAFIROFF, B. G. P.
- SIGAFOOS, R. B.: *see* HANDLEY, C. A.
- SIGHING
 circulation, 1944, 142: 721
- SIKAND, R. S.: *see* LEVINE, H.
- SILBER, E. N.: *see* AKMAN, L. C.
- See HWANG, W.
- SILBER, R. H.: *see* EDISON, ANN O.
- SILVER, ALENE F. Cholesterol and capillary permeability, 1948, 154: 16

- SILVER, ALENE F. and REED, C. I. Vitamin D and T-1824, 1948, 154: 19
- SILVER, M. L. and POLLOCK, G. H. Agene-induced canine epilepsy, 1948, 154: 439
- SILVETTE, H. Low barometric pressure and renal function, 1943, 140: 374
- Pituitary extract and tubular excretion, 1940, 128: 747
- Renal response to injection of pituitary extract, 1941, 131: 601
- and BRITTON, S. W. Acceleration and renal function, 1948, 155: 195
- and BRITTON, S. W. Cortico-adrenal extract and renal function, 1938, 123: 630
- and BRITTON, S. W. Renal function in adrenalectomized opossums, 1938, 121: 528
- , BRITTON, S. W. and KLINE, R. F. Carbohydrate changes after potassium administration, 1938, 122: 524
- See BRITTON, S. W.
- See COREY, E. L.
- SIMEONE, F. A. Adrenal sensitization by partial denervation, 1938, 122: 186
- Responsiveness of denervated nictitating membrane, 1938, 122: 650
- and MAES, J. P. Sensitization of submaxillary gland by denervation, 1939, 125: 674
- and ROSS, J. F. Gestation and lactation after sympathectomy, 1938, 122: 659
- , CANNON, W. B. and ROSENBLUTH, A. Sensitization of sympathetic ganglion, 1938, 122: 94
- , MENTHA, C. and RODRIGUES, H. A. Responsiveness of sweat glands after denervation, 1951, 165: 356
- See ACHESON, G. H.
- See ROSENBLUTH, A.
- SIMISTER, THELMA H. and CONKLIN, RUTH E. Pressoreceptors in regulation of blood pressure, 1943, 138: 391
- SIMKIN, B.: see LEVINE, R.
- See PRINZMETAL, M.
- SIMONSON, E. and KEYS, A. Orthopedic handicaps and work capacity, 1947, 151: 405
- , BLANKSTEIN, S. S. and CAREY, E. J. Efficiency of glare reduction by eyelids, 1945, 143: 541
- See ERICKSON, L.
- SIMPSON, MIRIAM E.: see FRAENKEL-CONRAT, H. L.
- See MARX, W.
- See VAN DYKE, D. C.
- SIMPSON, W. A., JR.: see HAMILTON, W. F.
- SIMS, E. A. H. Methyltestosterone and creatine metabolism, 1949, 157: 404
- and SELDIN, D. W. Creatine and guanidoacetic acid excretion, 1949, 157: 14
- SINCLAIR, M. A.: see HUGGINS, R. A.
- SINGER, M.: see SIDMAN, R. L.
- SINGLE FOOD CHOICE METHOD
- nutrition studied by, 1941, 133: 29
- survival of animals with accelerated metabolism, 1949, 159: 33
- utilization of food, 1942, 137: 573
- SINGMAN, D.: see BORSON, H. J.
- See LEPKOVSKY, S.
- SIOUSSAT, R. S.: see WÉGRIA, R.
- SIPLET, H.: see KOMAROV, S. A.
- SIRI, W.: see BERLIN, N. I.
- SIROTA, J. H.: see BROD, J.
- SISKEL, JEANE: see GESELL, R.
- SKANEN, JULIA G. and GREEN, D. M. Desoxycorticosterone action, 1948, 155: 290
- SKATOL
- muscle sensitivity to acetylcholine and potassium, 1946, 145: 611
- SKAVINSKI, E. R.: see STEIN, A. M.
- SKEGGS, HELEN R.: see BEYER, K. H.
- See WRIGHT, L. D.
- SKELTON, F. R. B-complex deficiency and protein diets, 1950, 161: 515
- and GRANT, G. A. Action of lithospermum ruderales, 1951, 167: 379
- SKF 688A: see *n*-PHENOXYISOPROPYL-*n*-BENZYL-BETA-CHLOROETHYLAMINE
- SKIN
- absorption of nitrogen by, 1941, 131: 631
- B complex deficiency and water of, 1944, 141: 85
- blood flow in, 1946, 145: 716
- and blood content of, 1947, 150: 125
- blood supply to various areas, 1938, 124: 328
- carbon dioxide production at high oxygen tension, 1947, 148: 499
- changes in salt and water of, during dehydration, 1946, 147: 400
- chloride of, 1938, 122: 228; 1940, 129: 600; 1941, 134: 86
- circulation, action of rutin on, 1951, 165: 293
- decompression sickness, 1947, 149: 626
- electrical potential of, 1940, 130: 557
- electrolyte distribution in, 1950, 160: 298
- exchange of radioactive and tissue potassium, 1941, 135: 152
- extract, thromboplastic activity of, 1942, 137: 179
- fat and water content during dehydration, 1946, 147: 49
- in albino rats, 1944, 142: 510
- formation of CO₂ from CO in, 1950, 161: 43
- of foot, water loss from, 1946, 146: 371
- oxygen consumption of, 1943, 138: 408
- pain, histamine as mediator for, 1948, 155: 186
- skin temperature, 1947, 149: 630
- permeability of, 1950, 162: 193; 1951, 164: 44
- radiating power of, in infra-red, 1939, 127: 454
- radioactive iodine in, 1941, 132: 348
- radioactive potassium in, 1941, 132: 483
- reduction time of oxyhemoglobin in, 1946, 147: 622
- repayment of oxygen debt in, 1939, 127: 285
- role in calorogenic action of adrenaline, 1949, 156: 114
- salt accumulation, 1951, 164: 428
- salt and water uptake by, 1951, 164: 137; 1951, 167: 255
- sodium turnover in, 1951, 167: 336
- stimulation of, conditioned reflexes, 1943, 139: 525
- stimulation of, warmth sense, 1941, 135: 20
- sweating patterns of, 1947, 151: 576

- transmission of light through various layers, 1946, 146: 114
- vascular activity in, 1939, 127: 671
- water content, 1938, 121: 381; 1942, 135: 434
- diet, 1942, 135: 393
- electrolyte distribution, 1949, 159: 61
- fat, and electrolyte, 1950, 161: 279
- water losses from, 1946, 145: 437
- zinc of, 1938, 124: 753
- SKINNER, J. T. and MCHARGUE, J. S. As, Mn and Cu in synthesis of hemoglobin, 1946, 145: 500
- and MCHARGUE, J. S. Manganese and synthesis of ascorbic acid, 1946, 145: 566
- and MCHARGUE, J. S. Mn intake and bisulfite-binding substances in blood, 1944, 141: 647
- and MCHARGUE, J. S. Utilization of boron in a low potassium diet, 1945, 143: 385
- SKIODAN
- renal clearance of, 1938, 123: 720
- SKOW, R. K.: *see* SHAFER, G. D.
- SKULL BONES
- thyroid and calcium in thyroparathyroidectomized rats, 1941, 133: 617
- thyroparathyroidectomy, 1940, 131: 129
- SKUNK
- vitamin A reserves of, 1938, 123: 695
- SLATER, I.: *see* DE BODO, R. C.
- SLAUGHTER, R. F.: *see* HAMILTON, W. F.
- SLEEP
- auditory stimuli necessary to wake from, 1938, 123: 477
- blood flow of spleen, 1939, 127: 106
- brain acetylcholine, 1949, 159: 251
- brain metabolism in, 1948, 154: 73
- hypnotoxin theory of, 1939, 125: 491
- motility during, 1939, 127: 480
- work output, recovery, 1944, 141: 643
- SLEETH, C. K.: *see* VAN LIERE, E. J.
- SLEZAK, G.: *see* KAMMERLING, E.
- *See* ROBERTSON, CHARLOTTE R.
- SLOAN H. Intestinal perfusion in uremia, 1951, 166: 137
- SLONAKER, J. R. Protein in diet affecting successive generations, 1938, 123: 526
- SLOTH
- blood chemistry in, 1938, 123: 701
- blood sugar, body temperature changes on emotional excitation, 1939, 125: 731
- factors affecting activity in, 1939, 127: 127
- SMATHERS, S. E.: *see* BRIDGER, C. E.
- SMELL
- injury to anterior thalamic nuclei, 1943, 139: 446
- olfactory conditioned reflex and motor centers, 1938, 121: 657
- SMELSER, G. K. Oxygen consumption of eye muscles, 1944, 142: 396
- Water and fat of orbital tissues in exophthalmos, 1943, 140: 308
- SMITH, A. E.: *see* BOYD, E. M.
- SMITH, A. H.: *see* EPPRIGHT, ECEL S.
- *See* ZAWADZKI, E. S.
- SMITH, ALICE: *see* MASON, M. F.
- SMITH, B. W.: *see* GOLDSTEIN, N. P.
- SMITH, C. A.: *see* DRAGSTEDT, L. R.
- *See* OBERHELMAN, H. A., JR.
- SMITH, C. M.: *see* GUYTON, A. C.
- SMITH, D. C. Adrenaline effect of melanophores after denervation, 1941, 132: 245
- and BROWN, FRANCES C. Blood changes after acute decompression, 1951, 164: 752
- and MATTHEWS, S. A. Adrenaline and oxygen consumption of fish, 1942, 137: 533
- and MATTHEWS, S. A. Teleost thyroid, 1948, 153: 215
- and OSTER, R. H. Blood sugar and resistance to low oxygen tension, 1946, 146: 26
- , OSTER, R. H. and TOMAN, J. E. P. Thiamine deficiency and resistance to low O₂ tension, 1944, 140: 603
- , OSTER, R. H., SNYDER, LINDA and PROUTT, LEAH M. Anesthetics and blood components, 1948, 152: 6
- *See* MATTHEWS, S. A.
- *See* OSTER, R. H.
- SMITH, D. E. Adrenal function after ovariectomy, 1946, 146: 133
- *See* PATT, H. M.
- SMITH, D. J. Reactions of human umbilical arteries, 1951, 164: 86
- and COXE, J. W. Reactivity of pulmonary blood vessels, 1951, 167: 732
- SMITH, D. L., WILLIAMSON, W. J., BLOOD, F. R. and D'AMOUR, F. E. Traumatic shock in the albino rat, 1951, 165: 532
- *See* BLOOD, F. R.
- SMITH, DOROTHY I.: *see* VIRTUE, R. W.
- SMITH, E. L.: *see* HUGGINS, R. A.
- *See* WAKERLIN, G. E.
- SMITH, E. R.: *see* MYLON, E.
- SMITH, ERMA A. and CONGER, R. M. Activity in relation to diet, 1944, 142: 663
- SMITH, F. and SMITH, W. W. Exercise: tolerance to radiation, 1951, 165: 662
- *See* SMITH, W. W.
- SMITH, G. VAN S., SMITH, O. W. and PINCUS, G. Urinary estrogens in menstrual cycle and pregnancy, 1938, 121: 98
- SMITH, GUINEVERE C. and RIDDLE, O. Fasting metabolism of hypophysectomized pigeons, 1944, 141: 303
- *See* Riddle, O.
- SMITH, H. P.: *see* BRINKHOUS, K. M.
- *See* SEEGBERS, W. H.
- *See* WARNER, E. D.
- SMITH, H. T.: *see* BRECKENRIDGE, C. G.
- SMITH, H. W. and CLARKE, R. W. Inulin and creatinine excretion by anthropoid apes, 1938, 122: 132
- *See* CORCORAN, A. C.
- SMITH, J. A.: *see* FOA, P. P.
- SMITH, J. J., POMARANC, M. M. AND IVY, A. C. Sex hormones and gall bladder activity, 1941, 132: 129
- SMITH, J. R.: *see* ROOS, A.
- SMITH, K. U.: *see* BRIDGMAN, C. S.
- SMITH, MARGARET: *see* SELLERS, A. L.

- SMITH, MARGARET C.: *see* BRADFIELD, DOROTHY
- SMITH, MARGARET E.: *see* SCUDDER, J.
- SMITH, O. W.: *see* SMITH, G. VAN S.
- SMITH, P. E.: *see* TYNDALE, H. H.
- SMITH, P. K., WINKLER, A. W. and HOFF, H. E. Electrocardiographic changes and serum magnesium, 1939, 126: 720
- *See* HOFF, H. E.
- *See* SCHWARTZ, B. M.
- *See* WINKLER, A. W.
- SMITH, P. W. and CRANDALL, L. A., JR. Bile and iron absorption, 1942, 135: 259
- *See* HOUGHIN, O. B.
- SMITH, R. B.: *see* PFEIFFER, C.
- SMITH, S.: *see* ROBY, C. C.
- SMITH, S. III.: *see* SELLERS, A. L.
- SMITH, S. E. and MEDLICOTT, MARY. Blood picture of iron and copper deficiency anemias, 1944, 141: 354
- MEDLICOTT, MARY and ELLIS, G. H. Blood picture of iron and copper deficiency anemias, 1944, 142: 179
- SMITH, SUSAN G. Hemoglobin value for adult dog blood, 1944, 142: 476
- Magnesium-potassium antagonism, 1951, 164: 702
- Progressive paralysis cured with synthetic biotin, 1945, 144: 175
- SMITH, W. W. X-irradiation and adrenocortical function, 1951, 167: 321
- and RANGES, H. A. Renal clearances of iopax, neoipax and skioldan, 1938, 123: 720
- and SMITH, F. Thyroid and radiation, 1951, 165: 639
- and SMITH, F. Thyroid and radiation: metabolic rate; exercise, 1951, 165: 651
- *See* SMITH, F.
- SMOLIK, E. A.: *see* WALKER, S. M.
- SNAKES**
- blood sugar, body temperature changes on emotional excitation, 1939, 125: 731
- gravitational shock in, 1951, 165: 539
- heart rate in shock, 1951, 165: 541
- oxygen consumption of retina in, 1943, 139: 13
- removal of foreign substances by lung lymphatics, 1938, 123: 598
- response to heterologous renin, 1942, 136: 733
- SNAPE, W. J.: *see* CANTAROW, A.
- *See* WIRTS, C. W.
- SNAPP, E.: *see* BERMAN, A. L.
- SNODGRASS, J. M., ROCK, J. and MENKIN, MIRIAM F. Validity of ovulation potentials, 1943, 140: 394
- SNYDER, C. D. Vascular and volume changes in perfused liver, 1938, 124: 647
- , JOHNSON, R. E. and PEEK, C. McI. Uptake and output of substances by perfused liver, 1938, 124: 704
- SNYDER, F. F.: *see* GLASS, H. G.
- *See* ROSENFELD, M.
- SNYDER, J. G. and WYMAN, L. C. Electrolytes in adrenalectomized hamsters, 1951, 167: 328
- SNYDER, LINDA: *see* SMITH, D. C.

See page iii for guide to use of index

SOAP

- in vivo hemolysis by, 1944, 140: 557
- protein constituents of pancreatic juice, 1945, 145: 144
- specific gravity and total nitrogen of pancreatic juice, 1944, 140: 575
- SOBER, H. A., HOLLANDER, F. and SONNENBLICK, B. P. Gastric mucous barrier, 1950, 162: 120
- SOBERMAN, R. J., KEATING, R. P. and MAXWELL, R. D. Whole-body x-irradiation, 1951, 164: 450
- SOBIN, S. and NICHOLSON, H. C. Carbon dioxide and respiratory rate, 1938, 124: 491
- *See* FLASHER, J.
- *See* NICHOLSON, H. C.
- SOBIN, S. S. Indirect blood pressure determination in the rat, 1946, 146: 179
- and LANDIS, E. M. Blood pressure of rat during choline deficiency, 1947, 148: 557
- SODEMAN, W. A.: *see* BURCH, G. E.

SODIUM

- acidosis and, in muscle, 1951, 167: 669
- balance, adrenalectomy, 1950, 160: 95
- with cortisone and DCA, 1951, 166: 495
- capillary permeability to, 1950, 162: 687
- chloride excretion, 1950, 162: 668
- depletion, adrenalectomy, 1950, 160: 89
- excretion of anti-diuretic substance, 1939, 127: 55
- elimination in pancreatic juice, 1941, 131: 578
- erythrocyte permeability to, 1948, 152: 113
- experimental renal hypertension, 1950, 160: 36
- extrusion from isolated muscle, 1951, 167: 284
- flame photometer measurements of, 1948, 153: 428
- flux through gills of fish, 1951, 165: 583
- importance in infusion fluids in therapy for shock, 1947, 150: 441
- injection of, coronary vessels, 1938, 124: 155
- isolated frog heart, 1940, 130: 731
- kidney reabsorption of, 1951, 165: 93
- mammalian heart, 1942, 136: 333
- metabolism, hypothalamic lesions, 1950, 161: 35
- in adrenal insufficiency, 1951, 164: 437
- ion exchange resins, 1950, 160: 268
- permutit Z feeding, 1951, 164: 695
- microcrystallographic method of analysis for, 1947, 150: 32
- movement between intestinal lumen and blood, 1944, 141: 488
- permeability, of cells to, 1944, 142: 440
- erythrocytes to, 1950, 162: 610
- potentiation of DCA hypertensive effect, 1948, 153: 226
- role in thirst, 1950, 162: 338
- survival from tourniquet shock, 1946, 146: 259
- therapy for shock following venous occlusion, 1945, 145: 151
- therapy for tourniquet shock, 1947, 148: 541
- transcapillary exchange of, 1944, 142: 412
- transfer to amniotic fluid, 1942, 136: 757
- SODIUM (As TISSUE CONSTITUENT)**
- changes in submaxillary glands, 1941, 135: 16
- distribution between aqueous humour and blood plasma, 1941, 134: 1

- in body, 1944, 142: 414
 - in heart and skeletal muscle, 1943, 139: 670
 - in man, 1948, 153: 381
 - distribution ratio, in cerebrospinal fluid and plasma, 1938, 124: 131
 - extracellular in brain, 1940, 128: 684
 - intracellular concentration, 1949, 159: 70
 - of blood during renal hypertension in dog, 1946, 147: 650
 - evisceration, 1950, 160: 250
 - in diabetic acidosis, 1947, 149: 669
 - varying levels of K and Na, 1950, 162: 182
 - of blood and tissue, hypotonic saline injection, 1949, 159: 61
 - of blood and urine, ascorbic acid metabolism, 1951, 166: 376
 - hypertonic injections, 1949, 159: 162
 - of adrenalectomized animals, 1951, 167: 328
 - of blood, muscle and liver, 1939, 127: 387
 - of brain and plasma, 1949, 156: 325
 - of brain cortex, 1949, 157: 236
 - during convulsions in rabbit, 1947, 150: 32
 - of cartilage, 1951, 166: 331
 - of gastric juice, 1941, 133: 542
 - of genital tract, 1940, 130: 290
 - of gut during absorption, 1945, 144: 458
 - of heart after coronary occlusion, 1942, 136: 481
 - of hepatic bile, chronic fistula, 1945, 145: 187
 - of incubated liver slices, 1950, 163: 598
 - of liver, 1939, 127: 368
 - anoxia, 1945, 145: 33
 - in hemorrhagic shock, 1945, 145: 33
 - of liver, muscle, and plasma in hemorrhagic shock, 1946, 147: 176
 - of muscle, 1940, 129: 267; 1951, 166: 426
 - adrenalectomy, 1941, 134: 227
 - following ischemia, 1951, 167: 291; 1951, 167: 308
 - stimulation, 1938, 121: 600
 - of muscle and skin, splenectomy, 1950, 160: 298
 - of oxygenated human blood, 1947, 149: 341
 - of plasma, DCA and ACTH, 1950, 160: 223
 - epinephrine, 1938, 121: 327
 - gravity shock, 1944, 141: 166
 - in shock, 1947, 149: 52
 - ovariectomy, 1946, 146: 135
 - potassium, 1950, 162: 186
 - whole-body x-irradiation, 1951, 164: 454
 - of plasma and cerebral cortex, 1949, 156: 165
 - of plasma and erythrocytes of adrenalectomized dog, 1950, 160: 92
 - of plasma and plasma ultrafiltrate, 1950, 162: 351
 - of plasma and urine, 1949, 157: 359
 - of serum, adrenalectomy, 1938, 123: 703; 1938, 123: 708; 1939, 127: 51
 - desoxycorticosterone, 1941, 135: 233
 - insulin, 1938, 123: 610
 - Pitressin, 1939, 127: 66
 - splenectomy, 1950, 160: 297
 - of serum and cells in pregnancy, 1942, 137: 386
 - of serum and myocardium, 1951, 166: 279
 - of sweat, regulation of, 1945, 143: 171
 - of tissues at low atmospheric pressures, 1944, 142: 63
 - of adrenalectomized and normal dogs, 1950, 160: 98
 - of urine, loss in fish, 1951, 165: 584
 - of urine and plasma under varying loads, 1949, 158: 452
 - of various tissues in hypertension, 1950, 161: 280
 - redistribution, in burn shock, 1947, 151: 155
 - water and of perfused heart, 1942, 136: 518
- SODIUM (EXCRETION)**
- after adrenalectomy, 1939, 127: 51
 - after splanchnicotomy, 1951, 164: 175; 1951, 166: 645
 - cardiac output, 1951, 166: 262
 - constancy of, 1951, 165: 429
 - during infusion of $K_4Fe(CN)_6$, 1950, 162: 364
 - during osmotic diuresis, 1948, 153: 465; 1950, 163: 175
 - during urea diuresis, 1949, 158: 226
 - exercise, emotional stress, 1951, 165: 149
 - extracellular fluid volume, 1950, 162: 681
 - glomerular and tubular influences on, 1951, 165: 411
 - glomerular filtration rate and tubular rejection fraction, 1950, 160: 306
 - hemorrhage, 1950, 161: 442
 - ideal osmotic work of, 1949, 157: 359
 - load, 1949, 158: 444
 - nitrogen mustard, 1948, 155: 299
 - rate of, 1949, 158: 214
 - reabsorption of, 1949, 159: 124
 - reabsorption of filtered, 1950, 162: 655
 - renal arterial constriction, 1950, 163: 422
 - renal clearance, 1950, 162: 639; 1951, 164: 147
 - in hypertension, 1951, 165: 328
 - renal venous pressures, 1951, 166: 400
 - renal regulation of, 1947, 148: 54
 - renal venous pressure, 1949, 157: 5
 - renin, 1951, 166: 621
 - temperature, 1945, 143: 379
 - tubular transport mechanisms for, 1951, 165: 109
 - venous pressure, 1950, 162: 649
- SODIUM (RADIOACTIVE)**
- absorption, from intestinal tract, 1938, 124: 667
 - capillary permeability to, 1950, 162: 687
 - demonstration of fluid convection in endoneural spaces, 1945, 143: 521
 - entrance into aqueous humor and cerebrospinal fluid, 1944, 142: 27
 - flux through gills, 1951, 165: 580
 - of pancreatic juice, 1941, 131: 578
 - lack of physiological effects from, 1939, 125: 412
 - measurement of extracellular fluid with, 1943, 139: 239; 1950, 162: 695
 - extracellular water of heart, 1949, 157: 254
 - metabolism of, 1951, 164: 437
 - movement from intestinal lumen to blood, 1944, 141: 488; 1944, 142: 550
 - permeability of blood-cerebrospinal barrier to, 1943, 140: 51
 - of frog skin to, 1950, 162: 195
 - of muscles of potassium deprived rats, 1940, 128: 450
 - of tissues, 1941, 132: 215

SODIUM (RADIOACTIVE)

rate of exchange through capillary wall, 1944, 142: 407

transfer across placenta, 1939, 128: 154; 1941, 132: 594; 1941, 134: 338; 1941, 134: 344; 1942, 136: 757

transport of, 1951, 167: 333

SODIUM (TISSUE METABOLISM)

anaerobic glycolysis in liver slices, 1946, 147: 509
binding of ion by muscle homogenates, 1950, 163: 240

in kidney slices, 1951, 167: 208

respiration of brain cortex, 1942, 135: 312

SODIUM ACETATE: *see* ACETATE, Na

SODIUM ARSENATE: *see* ARSENATE

SODIUM ARSENITE: *see* ARSENITE

SODIUM AZIDE: *see* AZIDE

SODIUM BARBITAL

acetylcholine metabolism, 1947, 151: 346

anoxia, urinary output, 1946, 147: 616

cardiac output, 1945, 143: 713

cardiovascular factors, 1949, 159: 383

effects of, 1943, 140: 177

muscle tonus, 1945, 143: 120

parabiotic barrier to, 1950, 161: 62

respiratory response to vagal stimulation, 1947, 149: 31

SODIUM BICARBONATE: *see* BICARBONATE, Na

SODIUM BISULFITE

clotting time, 1945, 144: 453

SODIUM BROMIDE: *see* BROMIDE, Na

SODIUM CARBONATE

buoyancy of body, 1942, 137: 140

carotid body, 1938, 121: 9

injection of, pH of blood and synovial fluid, 1946, 146: 9

motor neurons following partial denervation, 1939, 126: 737

SODIUM CHLORIDE

absorption during anoxia, 1940, 129: 619

from ileum, 1940, 131: 404

accumulation in frog skin, 1951, 164: 428

as normal saline, in treatment of hemorrhagic shock, 1946, 147: 160

blood coagulation, 1940, 128: 401

changes produced in by small intestine, 1950, 163: 1

depletion, 1951, 164: 407

water diuresis, 1951, 167: 473

disposition of continuously administered, 1945, 143: 573

diuresis due to, 1944, 142: 249; 1947, 148: 260

excretion by desert mammals, 1948, 154: 163

fluid exchange and DCA effects, 1948, 154: 465

frog heart rate, 1938, 124: 185

hypertonic, as muscle pain stimulus in decerebrate rigidity, 1945, 144: 267

for production of pain, 1944, 142: 238

increased survival time and isotonic injection in eviscerated rats, 1945, 144: 255

injury potentials of cardiac muscles, 1951, 166: 269

isotonic infusion, renal clearance of ascorbic acid, 1944, 141: 425

local application to the cochlea, 1939, 125: 692

of skin and muscle in dehydration, 1946, 147: 400

optimum saline concentration for saline diuresis, 1941, 134: 723

oxygen consumption of muscle, 1943, 139: 85

pepsin of gastric juice, 1950, 163: 31

retention of, 1939, 125: 419

salt excretion, urine flow, 1947, 148: 329

seizure pattern in rat, 1949, 157: 235

taste threshold of, 1939, 126: 1

thrombin activity, 1942, 137: 351

uptake by frogs, in, 1951, 164: 137; 1951, 167: 255

urinary excretion following dehydration, 1949, 156: 435

urine volume after injection, 1939, 127: 542

SODIUM CHLORIDE INTAKE

adrenal gland weight, 1938, 122: 586

choline hypertension, 1950, 162: 189

deficiency, leukocytes and, 1951, 166: 524

tissue glutathione and, 1951, 165: 571

urine volume and 17-ketosteroid excretion in rat, 1951, 164: 690

diabetes insipidus and, 1939, 126: 343

experimental renal hypertension and, 1949, 156: 422; 1950, 160: 31

growth and breeding record, 1946, 147: 340

growth, and blood and tissue concentrations, 1950, 162: 182

in normal and hypertensive animals, 1951, 164: 369

low, and hypertension in dogs, 1946, 147: 650

O₂ consumption of dogs, 1943, 139: 80

physiological effects of restriction, 1951, 165: 128

polyuria and, 1940, 131: 363

protection against high temperatures in adrenalectomized rats, 1945, 144: 110

response to, in dog, 1949, 159: 149

restriction in hypertension, 1950, 163: 190; 1951, 166: 528

water intake and urine and salt excretion, 1941, 132: 520

work in heat and, 1944, 142: 254

SODIUM CHOLATE

biliary excretion and, 1946, 146: 298; 1948, 154: 507

hepatic blood flow, 1941, 132: 382

synthesis and diet, 1950, 163: 48

SODIUM CINCHOPHEN: *see* CINCHOPHEN

SODIUM DEHYDROCHOLATE

biliary response to, 1951, 165: 684

hepatic blood flow, 1941, 132: 378

rate of biliary excretion, 1948, 154: 507

SODIUM DIETHYLDITHIOCARBAMATE: *see* CARBAMATES, dithio-

SODIUM (1,3-DIMETHYL-BUTYL) ETHYL BARBITURATE

convulsant dose and asphyxial depolarization potential, 1950, 160: 453

SODIUM ETHYL (1 METHYL-BUTYL) BARBITURATE; *see* PENTOBARBITAL

SODIUM ETHYL (1 METHYL-BUTYL) THIOBARBITURATE: *see* THIOPENTOL

SODIUM FLUORIDE: *see* FLUORIDES, Na

- SODIUM GLYCOCHOLATE**
 biliary excretion and, 1946, 146: 298
 chloride and water absorption, 1942, 136: 342
- SODIUM HEXAMETAPHOSPHATE:** *see* CALGON
- SODIUM N-HEXYLETHYL BARBITURIC ACID**
 cardiac vagus nerve and, 1940, 129: 15
- SODIUM ISO AMYL ETHYL BARBITURATE:** *see* AMYTAL
- SODIUM LAURYL SULFATE**
 insulin, 1945, 145: 126
 resorption of injected materials, 1945, 145: 123
 use in bioassay of steroid hormones, 1947, 150: 444
- SODIUM MANDELATE**
 toxicity, 1945, 143: 275
- SODIUM MONO-IODOMETHANE SULFONATE:** *see* SKIODAN
- SODIUM MONOFLUOROACETATE:** *see* FLUOROACETATE, Na
- SODIUM NITRITE**
 vascular system, 1945, 144: 166
 volume and enzyme content of pancreatic secretion, 1944, 141: 510
- SODIUM 2-Oxo-5-IodOPYRIDINE-N-ACETATE:** *see* IOPAX
- SODIUM PENTATHOL:** *see* THIOPENTOL
- SODIUM PHENYLACETATE**
 toxicity, 1945, 143: 274
- SODIUM PHENYL ETHYL BARBITURATE:** *see* PHENOBARBITAL
- SODIUM PHOSPHATE**
 injection, tetany due to, 1942, 137: 461
- SODIUM PROPYL-METHYL-CARBINYL ALLYL BARBITURATE:** *see* SECONAL
- SODIUM PYROPHOSPHATE**
 blocking of epinephrine cardioacceleration, 1950, 163: 492
 O₂ consumption of frog muscle, 1941, 135: 241
- SODIUM SALICYLATE:** *see* SALICYLIC ACIDS, Na
- SODIUM SPACE**
 fluid volumes and, 1950, 162: 695
- SODIUM SULFIDE**
 central effects on muscle reflexes, 1938, 123: 687
- SODIUM TAUROCHOLATE**
 biliary excretion, 1946, 146: 298
 chloride and water absorption, 1942, 136: 341
 lytic activity in vivo, 1941, 132: 19
- SODIUM TETRAIODOPHENOLPHTHALEIN**
 excretion of iodine, in saliva, 1943, 139: 215
- SODIUM THIOCYANATE:** *see* THIOCYANATES
- SODIUM THIOGLYCOLATE**
 primary potential, 1949, 159: 86
- SOGNAES, R. F. and VOLKER, J. F.** Radioactive phosphorus in tooth enamel, 1941, 133: 112
- *See* VOLKER, J. F.
- SOKALCHUK, S.:** *see* CAMPBELL, W. N.
- *See* RING, G. C.
- SOLANDT, D. Y., DELURY, D. B. and HUNTER, J.**
 Atrophy in denervated muscle, 1943, 140: 247
- *See* BRONK, D. W.
- *See* MANERY, JEANNE F.
- SOLARZ, S. D.:** *see* ROOT, W. S.
- SOLEX, M. H. and SHOCK, N. W.** Respiratory adjustment to postural change, 1940, 130: 771
- *See* HAMILTON, J. G.
- *See* SHOCK, N. W.
- SOLIS, J. T. and ESSEX, H. E.** Vasomotor action of protamine in rabbits, 1951, 167: 1
- SOLLMAN, T.** Survival of excitability after somatic death, 1947, 148: 299
- and ESTABLE, J. J. Survival time of mammalian muscle, 1949, 156: 328
- , HOERR, N. L. and ESTABLE, J. J. Frog sciatic nerve and skeletal muscle, 1949, 156: 333
- SOMATIC CENTERS**
 anoxia and, 1942, 135: 641
- SOMKIN, E.:** *see* FRIEDMAN, B.
- SOMMER, L. S.:** *see* WÉGRIA, R.
- SONNENBLICK, B. P.:** *see* SOBER, H. A.
- SONNENSCHIEIN, R. R.:** *see* ROSENTHAL, S. R.
- SORBITOL**
 hypertonic solution of, and drinking, 1950, 162: 333
 insulin and permeability of cells to, 1951, 166: 421
 passage from blood to aqueous humor, 1939, 125: 654
 urinary excretion following dehydration, 1949, 156: 435
- SORBOSE**
 urinary excretion following dehydration, 1949, 156: 435
- SOROKA, M.:** *see* BARACH, A. L.
- SOSKIN, S. and LEVINE, R.:** Atropine and atrophy of denervated skeletal muscle, 1943, 138: 251
- and LEVINE, R. Mode of action of insulin, 1940, 129: 782
- , ESSEX, H. E., HERRICK, J. F. and MANN, F. C. Regulation of blood sugar by the liver, 1938, 124: 558
- , LEVINE, R. and HECHTER, O. Phosphate changes in blood and muscle, 1941, 134: 40
- , LEVINE, R. and HELLER, R. E. Thyroid in disturbed carbohydrate metabolism, 1939, 125: 220
- , LEVINE, R. and LEHMANN, W. Hypophysis and carbohydrate metabolism, 1939, 127: 463
- *See* COHN, C.
- *See* LEVINE, R.
- SOTO-RIVERA, A.:** *see* PAPPENHEIMER, J. R.
- SOUDERS, HELEN J.:** *see* MACY, ICIE G.
- SOULE, DOROTHY F.:** *see* SCHEER, B. T.
- SOUND**
 differential discrimination of, and cortical ablations, 1945, 144: 425
 intense, repeated exposure to, and blood pressure, 1945, 144: 332
- SOUTH, F. E., JR.:** *see* COOK, S. F.
- SOUTHARD, F. D., JR.:** *see* REED, RACHAEL K.
- SOYBEANS**
 inhibitor of proteolytic activity in serum, 1951, 166: 485
 oil, nutritive value, 1947, 148: 47
 raw and autoclaved, and proteolytic activity of pancreas, 1948, 155: 33
- SPASTICITY:** *see* NEUROMUSCULAR FUNCTION
- SPAYING:** *see* CASTRATION
- SPEAKMAN, T. J. and BABKIN, B. P.** Cortical action on respiratory rate, 1949, 159: 239

- SPEALMAN, C. R. Action of ions on isolated frog heart, 1940, 130: 729
- Action of ions on mammalian heart, 1942, 136: 332
- Body cooling following immersion in water, 1946, 146: 262
- Ion antagonism and the frog heart, 1942, 136: 351
- Osmotically-active substances and heart rate, 1940, 129: 293
- Salts and osmotic pressure on frog-heart rate, 1938, 124: 185
- Temperature factors and blood flow in hands, 1945, 145: 218
- Volume flow of resting salivary secretion, 1943, 139: 225
- , NEWTON, M. and POST, R. L. Temperature, posture and blood volume, 1947, 150: 628
- , YAMAMATO, W., BIXBY, E. W. and NEWTON, M. Energy metabolism and water balance, 1948, 152: 233
- SPECHT, H., MARSHALL, LOUISE H. and HOFFMASTER, BETTY. Altitude and respiration, 1949, 157: 265
- See MARSHALL, LOUISE H.
- SPECIES
- blood pressure, 1945, 143: 298
- survival to anoxia, 1945, 145: 191
- SPECIFIC DYNAMIC ACTION (OF)
- fat after pancreatectomy, 1940, 131: 357
- high protein and high carbohydrate diets, temperature and, 1946, 146: 73
- pyridoxine and, 1947, 151: 342
- thiouracil and, 1947, 151: 130
- various food mixtures, 1942, 135: 742
- SPECIFIC GRAVITY
- of blood, dehydration and, 1945, 145: 154
- hypothermia and, 1947, 148: 611
- starvation and recovery and, 1947, 151: 526
- of plasma, hypothermia and, 1947, 148: 611
- water deprivation and, 1947, 150: 729
- SPECTOR, H.: *see* MAASS, A. R.
- SPECTROPHOTOMETRY
- on hemoglobin, 1941, 132: 311
- SPENCE, D. L.: *see* CAREY, M. M.
- SPENCER, F. C., MERRILL, D. L., POWERS, S. R. and BING, R. J. Coronary blood flow and cardiac O₂, 1950, 160: 149
- SPENCER, J. N.: *see* GOLDENSOHN, E. S.
- SPENCER, M. P. Renal hemodynamics in polycythemia, 1951, 165: 399
- See SELKURT, E. E.
- SERLING, G.: *see* BOGART, R.
- SPERMATOCELE FLUID
- ascorbic acid of, 1941, 133: 85
- SPERMATOZOA
- bovine epididymal, metabolism of, 1942, 136: 70
- count, hyaluronidase titer and fertilization, 1948, 152: 271
- ejaculated, metabolism of, 1943, 138: 741
- factors affecting survival of motility, 1942, 136: 535
- glycolysis in ejaculated bovine semen, 1945, 143: 694
- human, metabolism of, 1941, 132: 193
- respiratory quotient, 1940, 128: 410
- inhibiting effects of lithium, 1949, 157: 177
- livability in ejaculated bovine semen, 1945, 143: 692
- mechanism of transport, 1939, 125: 573
- metabolism of, 1941, 133: 602
- motility and, 1941, 133: 602
- of maltose by, 1950, 162: 598
- O₂ in metabolism and motility, 1943, 138: 512
- penetration of cervical mucus by, 1940, 129: 234
- phospholipids as source of energy for, 1941, 134: 542
- resistance to environmental conditions, 1944, 141: 621
- respiration and viability, 1940, 128: 409
- temperature, thyroid and, 1946, 147: 320
- transport in estrous cow, 1951, 165: 674
- viability, 1941, 132: 792
- SPERO, L.: *see* FIELD, J. B.
- SPERRY, R. W. Regeneration of vestibular nerve, 1945, 144: 735
- See LASHLEY, K. S.
- SPHINGOMYELIN
- action of thrombin, 1944, 141: 341
- SPICER, S. S. and REYNOLDS, HELEN. Age variation in methemoglobin reduction, 1949, 159: 47
- SPIEGEL, E. A. Cephaloglycic reactions of non-labyrinthine origin, 1942, 135: 628
- Depression of labyrinthine static receptors by cold, 1944, 141: 404
- and OPPENHEIMER, M. J. Conditioned reactions to position, 1939, 125: 265
- , HENNY, G. C. and WYCIS, H. T. Labyrinthine stimulation and cerebral circulation, 1944, 142: 589
- , HENNY, G. C., WYCIS, H. T. and SPIEGEL-ADOLF, MONA. Concussion and polarizability of brain, 1946, 146: 12
- SPIEGEL-ADOLF, MONA: *see* HENNY, G. C.
- See SPIEGEL, E. A.
- SPIELMAN, M. A.: *see* ROTHSCHILD, I.
- SPIKE POTENTIAL: *see* ORGAN OF TISSUE
- SPINAL CARDIOVASCULAR CENTERS
- blood flow and anoxia, 1945, 143: 698
- SPINAL CORD
- asphyxia, depolarization and, 1946, 147: 669
- metabolism and, 1942, 138: 141
- muscle reflexes and, 1944, 142: 428
- pain sensibility and, 1940, 131: 1
- reflex activity and, 1944, 141: 98
- reflexes after, 1943, 139: 617
- spinal shock and, 1940, 129: 518
- temperature and damage, 1944, 142: 33
- chloride content, 1938, 122: 228
- cholinesterase content, 1948, 155: 61
- chromatolysis and O₂ consumption, 1944, 141: 419
- destruction of, and experimental hypertension, 1938, 122: 506; 1938, 124: 106
- dorsal root, cholinesterase content, 1945, 144: 82
- electronic excitability in, 1951, 164: 502
- reflex activation and, 1940, 130: 306
- vasodilators in, and reflex activation of, 1946, 145: 474
- electrical stimulation, eye response, 1946, 146: 377

- enzymatic conversion of cyanide to thiocyanate in, 1948, 153: 351
- glycogen content, age and, 1946, 146: 390
- glycolysis during growth, 1944, 142: 545
- lesions of and conditioned reflexes, 1951, 166: 176
- metabolism, temperature and, 1944, 142: 37
- O₂ consumption of, 1941, 132: 455
- phosphorous in, 1951, 164: 5
- polarization of elements, 1950, 160: 451
- pressure on, blood pressure and, 1945, 144: 583
- respiratory pathways in, 1949, 157: 468
- termination of tracts in thalamus, 1942, 137: 409
- ventral root motor fibers, cholinesterase of, 1945, 144: 82
- SPINAL CORD, TRANSECTION**
- blood pressure, 1943, 139: 217
- circulation, 1946, 146: 414
- CNS and temperature-pressure relationships, 1949, 158: 137
- drinking induced by hypertonic solutions, 1950, 162: 333
- hemi-, and carotid sinus pathways, 1947, 150: 722
- mechanisms of shock, 1942, 137: 280
- plantar reflexes, 1938, 124: 121
- plasma volume and blood pressure, 1941, 134: 310
- pressor response to cord pressure, 1945, 144: 587
- shock, 1938, 122: 62
- temperature regulation, 1940, 130: 712
- traumatic shock, 1942, 137: 710; 1944, 141: 54
- SPINAL NEURONS: see NEURONS**
- SPINAL REFLEXES**
- cerebrospinal fluid calcium, 1940, 131: 67
- thiamin deficiency, 1944, 141: 444
- SPINAL TRACTS: see SPINAL CORD**
- SPINELLA, JANE R.: see BERRYMAN, G. H.**
- *See* COGSWELL, R. C., JR.
- SPINGARN, C. L.: see MULINOS, M. G.**
- SPITZER, E. H.: see FROST, D. V.**
- SPLANCHNIC NERVES**
- section, and response to tipping, 1946, 147: 661
- SPLANCHNICOTOMY**
- electrolyte excretion, 1951, 166: 644
- proximal tubules, 1951, 164: 175
- urinary excretion of sodium and chloride after, 1951, 164: 175
- SPLEEN**
- adrenergic substances in, 1947, 148: 474
- alkaline phosphatase of, 1950, 163: 652
- arterio-venous anastomoses in, 1948, 152: 48
- B-complex deficiency and, 1950, 161: 517
- behavior in hemorrhagic hypotension and shock, 1943, 138: 205
- callicrein inactivators from, 1944, 142: 542
- chloride content, 1938, 122: 228; 1940, 129: 600
- cholinesterase in, 1947, 148: 677
- concentration of red cells in, and barbiturate anesthesia, 1943, 138: 415
- electrolyte distribution, 1950, 160: 295
- enlargement due to cobalt and work performance tests, 1943, 139: 404
- estrogens and x-ray injury to, 1949, 159: 275
- function, during tourniquet shock, 1945, 144: 496
- in fowl, 1943, 138: 599
- heparin content of, 1939, 125: 104
- histaminase content of, 1940, 129: 222
- histamine content of, 1938, 124: 416; 1951, 167: 272
- ionic and water contents of, 1950, 160: 98
- iron storage and x-irradiation, 1951, 166: 384
- lesions due to potassium deficiency, 1945, 145: 292
- leucocyte picture and, 1950, 160: 75
- measurement of blood flow in, 1939, 127: 106
- pathology in acclimatization to high altitudes, 1951, 167: 265
- phosphorus turnover in, 1942, 138: 176
- potassium and water content, in potassium-deprived rats, 1940, 128: 452
- radioactive colloidal gold in, 1951, 164: 830
- radioactive iodine in, 1941, 132: 348
- rhythmicity of blood flow, 1939, 127: 119
- severe hypoxia and, 1951, 165: 215
- sodium and potassium content, 1950, 162: 186
- sodium turnover in, 1951, 167: 336
- sympathomimetic amines in, 1947, 148: 461
- thiamin content, 1938, 122: 487
- volume in artificial fever, 1939, 125: 607
- water content, 1938, 121: 381; 1942, 135: 434
- diet, exercise and, 1940, 128: 539
- water, fat, and electrolyte content, 1950, 161: 279
- weight, androgens and, 1948, 154: 461
- salt restriction and, 1951, 165: 130
- total solids, x-radiation and, 1947, 150: 484
- x-ray study of, and anesthesia, 1938, 121: 387
- SPLENECTOMY**
- blood changes after acute decompression, 1951, 164: 752
- blood volume, 1946, 146: 746
- cholesterol feeding and, 1947, 149: 1
- electrolyte distribution in muscle and skin, 1950, 160: 298
- erythrocyte response to CO₂, 1940, 129: 528
- hematocrit, 1946, 146: 746
- hemoglobin, 1938, 122: 574
- washout technique for determining total volume of blood cells, 1946, 147: 412
- SPLENIC ARTERIES**
- exercise and blood flow in, 1940, 128: 341
- SPLENIC NERVES**
- recovery of responsiveness in, 1938, 123: 313
- SPLENIN**
- A and B, inflammation and, 1951, 166: 347
- joint swelling and, 1951, 166: 342
- SPOONER, MARYLOO and MEYER, O. O.** Dicumarol and platelet adhesiveness, 1944, 142: 279
- SPOOR, H. J., HARTMAN, F. A. and BROWNELL, KATHARINE A.** Lactation factor of the adrenal, 1941, 134: 12
- SPOTNITZ, H.: see ELSBERG, C. A.**
- SPRAGUE, J. M.: see STRAUS, W. L., JR.**
- SPRINSON, D. B.: see BAUMANN, E. J.**
- SPROUL, E. E. and SANDERS, E. K.** Pancreatic achylia and vitamin K absorption, 1941, 135: 137
- SPOULL, MURIEL: see MCINTIRE, F. C.**
- SQUALUS ACANTHIAS: see DOGFISH**

SQUID, EYE: *see* EYE, squid

SQUIRREL

vitamin A reserves of, 1938, 123: 695

STACY, R. W. and DEMUNBRUN, D. O. Adrenaline and anoxic hyperventilation, 1950, 161: 51

—, WHITEHORN, W. V. and HITCHCOCK, F. A. Susceptibility to anoxia, 1948, 153: 87

STAMLER, J. Tubular transport mechanisms for Na and K, 1951, 165: 109

—, GOLDBERG, H., GORDON, A., WEINSHEL, M. and KATZ, L. N. Renal venous pressures and sodium clearance, 1951, 166: 400

—, HWANG, W. and KURAMOTO, K. Na and Cl clearances in hypertensive dogs, 1951, 165: 328

—, RODBARD, S. and KATZ, L. N. Renal clearances in hypertension, 1950, 160: 21

— *See* HWANG, W.

STANCE: *see* POSTURE

STANDING

as a geotropic reflex, 1938, 121: 471

eccentricity of, 1943, 140: 205

fatigue due to, 1947, 150: 109

STANNARD, J. N. Carbon monoxide and respiration of frog muscle, 1940, 129: 195

— Iodoacetate and iodoacetamide effects in frog muscle, 1938, 122: 379; 1938, 122: 390

— Resting and activity O₂ consumption of muscle, 1939, 126: 196; 1941, 135: 238

— *See* CLARK, R. T., JR.

— *See* ROTTA, A.

STANTON, J. R.: *see* FREIS, E. D.

STAPHYLOKINASE

profibrinolysis and, 1951, 166: 594

STAPP, J. P.: *see* KEYS, A.

STARCH

iodine reaction, activity of sweat glands and, 1946, 147: 391

parenteral infusion of, 1950, 161: 554

response of alimentary tract, 1947, 148: 297

STARE, F. J.: *see* HEGSTED, D. M.

— *See* MANN, G. V.

STARKEY, W. F. and LEATHEM, J. H. Mare serum hormone and mouse, 1939, 127: 751

— and LEATHEM, J. H. Progesterone and male and female mice, 1942, 135: 567

STARLING'S LAW

x-ray density changes of heart shadow, 1949, 156: 339

STARR, I. and RAWSON, A. J. Vertical ballistocardiograph and circulation on arising, 1941, 134: 403

—, RAWSON, A. J., SCHROEDER, H. A. and JOSEPH, N. R. Cardiac output in man, 1939, 127: 1

STARR, P. and ROSKELLEY, R. Cold and thyrotropic hormone and thyroid, 1940, 130: 549

STASIS: *see* HEMOSTASIS

STATIC EFFORT

blood pressure and pulse rate, 1947, 150: 114

center of gravity in, 1947, 150: 112

STATIC RECEPTORS

of labyrinth, cold and 1944, 141: 404

STATICIN: *see* CARINAMIDE

STATISTICS

analysis of knee-jerk, 1944, 141: 67

STAUFFER, F. and HYMAN, C. Fluid shifts under negative G, 1948, 153: 64

STAVRAKY, G. W.: Adrenaline and spinal neurones, 1947, 150: 37

— Partition of nitrogen in submaxillary saliva, 1940, 129: 539

— Pulmonary ventilation and action of adrenaline, 1942, 137: 485

STEAD, E. A., JR. and EBERT, R. V. Cell-plasma ratio of circulating blood, 1941, 132: 411

— *See* EBERT, R. V.

— *See* WARREN, J. V.

STEADINESS TEST

at high altitudes, 1947, 150: 204

scores, and alveolar air composition, 1946, 146: 212

STEAPIN: *see* LIPASE, pancreatic

STEARNS, A. W., JR., GREENBLATT, M., CANZANELLI, A. and RAPPORT, D. Oxygen consumption and pH of isolated tissues, 1941, 132: 564

STEARNS, N. S., MAISON, G. L. and STUTZMAN, J. W. Cardiac resuscitation, 1951, 164: 601

STEBBINS, R. B. Water metabolism in pyridoxine deficiency, 1951, 166: 538

STECHE, R. M.: *see* DANIELSON, W. H.

STECK, I. E.: *see* GELLHORN, E.

— *See* JOSEPH, N. R.

STEEGE, T. W.: *see* GREGG, D. E.

STEELE, A. G.: *see* WINDLE, W. F.

STEELE, J. M., BERGER, E. J., DUNNING, MARCELLE F. and BRODIE, B. B. Total body water in man, 1950, 162: 313

— *See* BERGER, E. Y.

— *See* GALDSTON, M.

STEENBOCK, H.: *see* IRWIN, MARGARET H.

— *See* MORRIS, PORTIA G.

— *See* WEBER, JANET

STEEPLES, G. L., JR. and JENSEN, H. Blood glucose level and adrenal cortex, 1949, 157: 418

STEER: *see* CATTLE

STEFANINI, M. and QUICK, A. J. Calcium and blood coagulation, 1948, 152: 389

— *See* QUICK, A. J.

STEFKO, P.: *see* ANDRUS, W. DEW.

STEGGERDA, F. E. Water intake of an adult without salivary glands, 1941, 132: 517

—, GIANTURCO, C. and ESSEX, H. E. Action of pituitary extracts on intestinal colon, 1938, 123: 400

— *See* POGRUND, R. S.

STEIMAN, S. E. Muscle phosphate in lead poisoning, 1939, 126: 261

— Single neuromuscular junction, 1943, 140: 269

— and PRATT, F. H. Conduction over a quiescent area of the muscle fiber, 1938, 122: 27

— *See* HODES, R.

STEIN, A. M., SKAVINSKI, E. R., APPLEMAN, D. and SHUGARMAN, P. M. Liver catalase activity, 1951, 167: 581

STEIN, I. D., HARPUDE, K. and BYER, J. Blood vessels after sympathectomy, 1949, 158: 319

- , HARPUDER, K. and BYER, J. Sympathectomy and blood flow in human limb, 1948, 152: 499
- See HARPUDER, K.
- STEIN, I. F., JR.: *see* GREENGARD, H.
- STEIN, J. J.: *see* HOLLANDER, F.
- STEINBACH, H. B. Ion binding in muscle homogenates, 1950, 163: 236
- Sodium extrusion, 1951, 167: 284
- STEINBERG, B. and MARTIN, RUTH A. Plasma factor for leucocytes, 1950, 161: 14
- STEINER, C. N.: *see* MORRIS, D. L.
- STEINITZ, F. S.: *see* KATZ, L. N.
- STEINITZ, K. Renal excretion of sucrose and inulin in man, 1940, 129: 252
- STELLATE GANGLION: *see* SYMPATHETIC NERVOUS SYSTEM, GANGLIA, stellate
- STEMLER, F. W., WIEBERS, J. E. and HIESTAND, W. A. Survival to explosive decompression, 1950, 163: 400
- See ZARROW, M. X.
- STENGEL, A., JR.: *see* RHOADS, J. E.
- STEP-UP EXERCISE: *see* HARVARD STEP-UP TESTS
- STEPHENSON, S. E., JR.: *see* RODES, N. D.
- STERN, T. N., COLE, V. V., BASS, ANNE C. and OVERMAN, R. R. Radiosodium in adrenal insufficiency, 1951, 164: 437
- See ZILVERSMIT, D. B.
- STEROIDS**
- overt and masked actions of, 1943, 139: 99
- renotropic action and chemical structure, 1944, 142: 315
- renotrophic and androgenic activity, 1944, 142: 315; 1946, 145: 549
- renotrophic-androgenic and somatotrophic, 1949, 158: 51
- weight of various organs, 1946, 145: 551
- STETSON, R. H.: *see* HUBBARD, A. W.
- STETTNER, CONSTANCE E.: *see* KOCHAKIAN, C. D.
- STEVENS, C. D.: *see* FERRIS, E. B.
- STEVENS, MARY E. T.: *see* BOYD, E. M.
- STEVENSON, J. A. F., WELT, L. G. and ORLOFF, J. Water and electrolyte metabolism, 1950, 161: 35
- See LUNDBAEK, K.
- STEWART PRINCIPLE**
- compared with electrokymograph for cardiac output, 1950, 161: 236
- STEWART, G. A.: *see* BRITTON, S. W.
- STEWART, J. D.: *see* GREGERSEN, M. I.
- STEWART, J. M. Barbiturates and potassium metabolism, 1950, 163: 622
- STEWART, W. C. Pituitary and water balance, 1949, 157: 412
- Reactions of ciliated epithelium, 1948, 152: 1
- STICKNEY, J. C. Epinephrine and potassium balance of muscle, 1941, 132: 9
- and VAN LIERE, E. J. Gastric emptying and acclimatization to low oxygen, 1942, 137: 160
- , NORTHUP, D. W. and VAN LIERE, E. J. Anoxic anoxia and urine secretion in anesthesia, 1946, 147: 616
- , NORTHUP, D. W. and VAN LIERE, E. J. Blood pressure and intestinal absorption of saline, 1947, 150: 466
- , NORTHUP, D. W. and VAN LIERE, E. J. Blood sugar during anoxia, 1948, 154: 423
- , NORTHUP, D. W. and VAN LIERE, E. J. Blood sugar and hemoglobin during anoxia, 1951, 167: 559
- , VAN LIERE, E. J. and NORTHUP, D. W. Motility of small intestine, 1949, 158: 201
- , VAN LIERE, E. J. and NORTHUP, D. W. Propulsive motility and intestinal length, 1951, 167: 399
- See NORTHUP, D. W.
- See VAN LIERE, E. J.
- STIER, P. L. and HAYMAN, J. M., JR. Intraperitoneal ringer's and kidney weight, 1938, 121: 189
- STILBESTROL**
- adaptation to overdosage, 1940, 130: 358
- capillary permeability, 1941, 134: 258
- cholinergic effect, 1939, 128: 149
- pelvic ligatures, 1947, 151: 135
- serum protein levels, 1942, 136: 308
- STILWELL, D.: *see* GARDNER, E.
- STINGER, DOROTHY: *see* DRAGSTEDT, L. R.
- STINGRAY**
- plasma prothrombin level in, 1939, 125: 297
- STOCK, C. C. and SCHROEDER, H. A. Arterial hypertension, 1950, 160: 409
- STOCKHOLM, MABEL: *see* ALTHAUSEN, T. L.
- See EILER, J. J.
- STOERK, H. C.: *see* CARNES, W. H.
- STOKES, F. R.: *see* BRISKIN, H. L.
- STOKEY, E.: *see* LIPSCHITZ, W. L.
- STOMACH**
- absorption of alcohol, 1948, 153: 268
- of water, 1945, 144: 358
- activity, fats and, 1941, 134: 133
- hydrochloric acid and, 1942, 137: 155
- apparatus for continuous study of secreting mucosa, 1950, 163: 388
- application of acetylcholine on fundic mucosa, 1951, 167: 621
- cardia, drugs and spasm of, 1945, 143: 163
- innervation, drugs and, 1945, 143: 166
- chloride content, 1938, 122: 228; 1940, 129: 600
- contents during fasting, 1945, 143: 563
- digestion of carbohydrate and protein in, 1941, 132: 42
- distention as factor in satiation of thirst, 1949, 159: 533
- electrical energy output, 1943, 139: 1
- emptying time and relative digestion, 1941, 135: 13
- in old people, 1941, 134: 719
- enterocrinin in, 1938, 121: 483
- evacuation, mechanics of, 1941, 131: 606
- pyloric sphincter motility and, 1942, 137: 234
- rate of, 1942, 135: 529
- exchange of radioactive and tissue potassium, 1941, 135: 152
- formation of HCl by, 1951, 164: 187
- function, thyroid and, 1951, 166: 131
- gland, parathyroid and, 1942, 135: 663

STOMACH

- histamine content, 1938, 124: 416; 1941, 131: 591
 hunger contractions in, and amphetamine, 1948, 153: 259
 ingestion of glucose and, 1945, 144: 609
 inhibition of thirst in, 1950, 161: 374
 jejunal pedical and secretion, 1944, 141: 75
 motility, body temperature and, 1942, 137: 22
 inhibition by amino acids, 1942, 135: 611
 injection of pyrogens and, 1942, 137: 22
 sham feeding and, 1950, 162: 447
 test meals and, 1947, 149: 107
 motor and secretory changes correlated with vascular changes, 1943, 138: 309
 mucosa, histamine in, 1944, 141: 79
 in vitro secretion, 1940, 130: 327
 mechanism of acid secretion by, 1940, 131: 165
 mucous barrier, eugenol and, 1950, 162: 120
 parietal cells, stimulation by histamine, 1949, 158: 197
 positive injury potentials, 1944, 140: 720
 pressure in, and acid secretion, 1950, 161: 47
 production of electrical energy, 1948, 154: 148
 pyloric region, intralumen pressures in, 1940, 130: 794
 reaction of contents, 1942, 136: 159
 reaction, and neutralizing ability of content, 1942, 136: 370
 release of gastrin in, 1950, 163: 27
 removal, anemia due to, 1947, 150: 418
 eating habit in hypothalamic obesity, 1946, 147: 739
 osteoporosis after, 1938, 121: 137
 repayment of oxygen debt in, 1939, 127: 285
 role of urease in mucosa, 1950, 163: 386; 1951, 165: 688; 1951, 165: 695
 tonus, drugs and, following vagotomy, 1947, 148: 340
 vitamins A and D and Ca and P content, 1947, 149: 325
- STOMACH POUCH
 function, 1951, 164: 557
- STOMACH U.S.P.: *see* VENTRICULIN
- STOMACH, ACTION POTENTIAL
 difference of resting and secreting stomach, 1951, 164: 187
 dilute salt, 1947, 151: 381
 drugs, 1947, 149: 162
 electrical stimulation and, 1945, 144: 696
 measurement of, 1951, 164: 188
 mucosa, factors affecting, 1947, 149: 77
 origin, 1946, 147: 69
 secretion and, 1945, 144: 115; 1947, 149: 174
 thiocyanate and, 1945, 144: 701
- STONE, D. and SHAPIRO, S. Potassium in rat brain and muscle, 1948, 155: 141
 — *See* HOAGLAND, H.
- STONE, W. E., MARSHALL, C. S. and NIMS, L. F.
 Chemical changes in the brain in injury and anoxia, 1941, 132: 770
 — *See* DUSSEY DE BARENNE, J. G.
 — *See* GURDJIAN, E. S.
- STONECIPHER, W. D.: *see* REINEKE, E. P.

- STONER, H. B. Magnesium and muscle phosphates, 1950, 161: 387
- STONER, H. C.: *see* EVANS, H. M.
- STORAGE
 prothrombin and ac-globulin, 1948, 154: 122
- STORER, E. H.: *see* DRAGSTEDT, L. R.
- STRAIN
 circulatory pressure and, 1944, 141: 43
- STRAIN (of animal): *see* HEREDITY
- STRAIT, L. A.: *see* RALSTON, H. J.
- STRAJMAN, E.: *see* COOK, S. F.
- STRAUB-FUEHNER FROG HEART
 high frequency electric field changes and, 1945, 144: 1
- STRAUBE, R. L.: *see* PATT, H. M.
- STRAUS, W. L., JR. and SPRAGUE, J. M. Innervation of interosseous muscles of cat, 1944, 142: 391
- STRAUT, C. B.: *see* WEVER, E. G.
- STREET, H. R. and COWGILL, G. R. Acute riboflavin deficiency in the dog, 1939, 125: 323
- STREICHER, D.: *see* COHN, C.
- STREICHER, E., HACKEL, D. B. and FLEISCHMANN, W.
 Fasting pigeon and extreme cold, 1950, 161: 300
- STRENGTH-DURATION STIMULATION
 of single nerve fiber, 1939, 125: 367
- STREPTOMYCIN
 survival of eviscerated rat and, 1951, 166: 351
- STRESS
 adrenal cortex, 1950, 163: 326
 blood glutathione, 1951, 165: 574
 brain and muscle potassium, 1948, 152: 423
 emotional, renal function and, 1949, 157: 31
 water, sodium excretion and, 1951, 165: 149
 environmental, hypertension and, 1945, 144: 331
 glycosuria in diabetic rat, 1950, 162: 1
 iodide metabolism in, 1951, 167: 576
 non-specific, 1950, 161: 515
 pituitary-adrenal antagonism to estrogens, 1948, 152: 137
 thyroid function, 1949, 159: 291
- STRETCH
 comparison for ligamentum nuchae and aorta, 1939, 125: 3
 quick and twitch response, 1951, 164: 238
 receptors, and tetrathylammonium, 1948, 153: 601
 response of smooth muscle, 1947, 149: 300
- STRETCH REFLEX
 cord asphyxiation and, 1944, 142: 431
- STRICKLAND, J. T.: *see* CARMICHAEL, E. B.
- STROKE VOLUME: *see* HEART STROKE
- STRONG, L. C.: *see* FRANCIS, L. D.
- STRONTIUM, RADIOACTIVE
 penetration of blood-cerebrospinal barrier, 1943, 140: 57
- G-STROPHANTHIN: *see* OUABAIN
- STROUD, M., III: *see* ECKSTEIN, R. W.
- STRUCK, H. C.: *see* SCHILLER, A. A.
- STRUCTURAL ORIENTATION
 of tendon and bone, x-ray diffraction pattern, 1945, 144: 632
- STRUGGLE
 blood sugar, 1941, 133: 538
 vascular tone, 1941, 135: 43

STRYCHNINE

- acetylcholine metabolism, 1947, 151: 346
- action on nerve fiber, 1941, 134: 705
- activity of adenosine-triphosphatase, 1948, 152: 90
- cortical discharges with acetylcholine and, 1945, 144: 169
- crossed phrenic phenomenon, 1941, 134: 104
- depressant action of, 1939, 126: 277
- EEG, 1941, 132: 232
- electrical activity of sensorimotor cortex, 1938, 121: 27
- inhibition of brain cholinesterase, 1950, 160: 193
- mechanism of action on nervous system, 1939, 125: 172
- motor neurons following partial denervation, 1939, 126: 735
- muscle, 1948, 153: 358
- neurones of central nervous system and, 1939, 127: 627
- potentials in the hypothalamus, 1946, 146: 633
- respiration at high altitude, 1949, 256: 55
- response of cerebral cortex to, 1941, 132: 776
- use in delimiting central neurones, 1939, 127: 620

STUCKEY, HELEN L.: *see* SIEGEL, P. S.

STUCKEY, JOSEPHINE and COCO, R. M. Blood pictures of active and hibernating squirrels, 1942, 137: 431

STUDY, R. S. and SHIPLEY, R. E. RBF during renal nerve stimulation, 1950, 163: 442

— *See* SHIPLEY, R. E.

STURGEON

cardiac inhibition in, 1950, 160: 552

STURGEON, ANGIE MAE: *see* HENSCHER, A. F.

STURKIE, P. D. Electrocardiogram of the chicken, 1948, 154: 251

— Hypothermia and blood, 1947, 148: 610

— K deficiency and electrocardiogram, 1950, 162: 538

— Reputed reservoir function of spleen in the fowl, 1943, 138: 599

— Tolerance of adult chickens to hypothermia, 1946, 147: 531

STUTZMAN, F. L. and REINECKE, R. M. Plasma potassium, 1949, 157: 401

— *See* REINECKE, R. M.

STUTZMAN, J. W.: *see* PROCHNIK, G.

— *See* STEARNS, N. S.

SUBCUTANEOUS TISSUE: *see* TISSUE, subcutaneous

SUBMAXILLARY GLAND

electrolyte changes in during stimulation, 1941, 135: 164

potassium changes in, 1938, 124: 72

radioactive iodine in, 1941, 132: 348

secretion, factors affecting, 1941, 134: 441

sensitization of, by denervation, 1939, 125: 674

to acetylcholine, 1942, 135: 524

stimulation, and partition of nitrogen in saliva, 1940, 129: 541

SUBSTANCE P

of Euler and Gaddum, 1938, 122: 636

SUCCINATE

as substrate for perfused rat heart, 1949, 158: 273

blood coagulation, 1940, 130: 576

oxidation of, as energy source for renal transport mechanisms, 1951, 166: 104

O₂ consumption of spermatozoa, 1943, 138: 512

R. Q. of, in brain, 1939, 125: 603

therapy in shock, 1943, 139: 322; 1944, 142: 299; 1946, 147: 160

uterine respiration, 1940, 128: 658

SUCCINIC DEHYDROGENASE

activity and synovial membrane potentials, 1949, 157: 75

of muscle, and neurotomy, 1951, 164: 742

SUCCINOXIDASE

response to thyroid and diet, 1950, 161: 31

thyroid, and adrenalectomy, 1946, 145: 695

SUCCINYL SULFATHIAZOLE

riboflavin and B₆ potency of tissues, 1945, 144: 76

SUCKER

O₂ consumption of retina in, 1943, 139: 13

SUCKLING, E. E., BROOKS, C. McC., ORIAS, O., GILBERT, J. L. and SIEBENS, A. A. Measurement of cardiac cycle, 1950, 162: 213

— *See* BROOKS, C. McC.

— *See* ORIAS, O.

— *See* SIEBENS, A. A.

SUCROSE

clearance of, and urine flow, 1946, 145: 639

damage to kidney tubules by, 1944, 141: 431

diffusion from cerebrospinal fluid, 1938, 123: 747

distribution in body fluid, 1942, 137: 723

excretion of, 1940, 129: 252

during osmotic diuresis, 1949, 157: 366

following dehydration, 1949, 156: 435

fecal excretion of vitamins, 1950, 162: 131

feeding, nitrogen excretion and, 1947, 150: 391

heart rate, 1940, 129: 295

nutritive value of, 1945, 143: 340

thiamin and, 1945, 143: 340

nutritive value of fats and, 1947, 148: 47

penetration into aqueous humour, 1942, 137: 423

permeability of cells to, 1944, 142: 440

survival on pure diet of, 1946, 147: 13

taste threshold for, 1940, 128: 295

SÜE, P.: *see* LEBLOND, C. P.

SUGARMAN, H., KATZ, L. N., SANDERS, A. and JOCHIM, K. Genesis of electrical currents due to heart injury, 1940, 130: 130

— *See* FRIEDMAN, M.

SUGARMAN, J., FRIEDMAN, M., BARRETT, EVALYN and ADDIS, T. Flow and composition of renal lymph, 1942, 138: 108

SUHRIE, VIRGINIA: *see* HIATT, E. P.

SULFADIAZINE

blood picture and, at rest and during exercise, 1942, 137: 593

clearance of, and urine flow, 1946, 145: 641

muscle sensitivity to acetylcholine and potassium, 1946, 145: 610

O₂ and CO₂ capacity of blood, 1944, 140: 486

SULFAGUANIDINE

O₂ and CO₂ capacity of blood, 1944, 140: 487

SULFANILAMIDE

ability to withstand high altitude, 1942, 136: 494
blood picture, at rest and during exercise, 1941, 135: 77

carbonic anhydrase, 1941, 135: 85
distribution of intravenous, 1942, 138: 126
excretion, 1943, 139: 197; 1944, 141: 158
in whole blood, 1940, 129: 746
muscle sensitivity to acetylcholine and potassium, 1946, 145: 610
O₂ and CO₂ capacity of blood, 1944, 140: 485
potassium secretion, 1950, 161: 153
reabsorption of bicarbonate by renal tubules, 1946, 147: 149
renal electrolyte metabolism, 1951, 167: 209
resting potential of nerve, 1948, 153: 95

SULFAPYRIDINE

muscle sensitivity of acetylcholine and potassium, 1946, 145: 610
O₂ and CO₂ capacity of blood, 1944, 140: 485

SULFATE

absorption from alimentary tract, various agents and, 1942, 135: 330
anaerobic glycolysis in liver slices, 1946, 147: 509
anoxia and absorption of, 1940, 129: 619
capillary permeability to, 1950, 162: 687
clearance, at various plasma concentrations, 1939, 125: 510
excretion, 1939, 125: 506; 1942, 137: 658.
 other anions and cations and, 1942, 137: 658
ideal osmotic work of excreting, 1949, 157: 359
inorganic, renal tubular reabsorption, 1947, 151: 311
intestinal absorption, 1940, 129: 619
of cartilage, 1951, 166: 331
of serum in shock, 1947, 149: 54
plasma and urine concentrations, 1949, 157: 359
prepared with radioactive sulfur, 1950, 162: 687
radioactive, movement from gut to blood, 1944, 142: 550
substitution for chloride, 1938, 122: 226
transcapillary exchange rate and volume of distribution, 1950, 162: 687
urinary excretion of, 1949, 158: 214

SULFATES

Al, permeability of frog skin and, 1950, 162: 196
Cu, emesis due to, 1951, 164: 520
 renal electrolyte metabolism and, 1951, 167: 208
 renal electrolytes and water metabolism, 1951, 167: 207
K, isotonic, addition to blood, 1948, 152: 79
Mg, renal dynamics and, 1951, 166: 199
Na, absorption from ileum, 1940, 131: 404
 blood coagulation and, 1940, 128: 401
 change produced in by small intestine, 1950, 163: 1
 excretion, during osmotic diuresis, 1949, 157: 365
 following dehydration, 1949, 156: 435
 hypertonic infusion, pituitrin secretion and, 1945, 144: 318
 injection of hypertonic, drinking and, 1950, 162: 335
 isotonic, effect of addition to blood, 1948, 152: 79
 renal excretion and, 1950, 160: 353
 urine secretion in chicken and, 1940, 128: 592

NH₄, as stabilizing agent for purified prothrombin, 1947, 150: 63

SULFATHIAZOLE

anemia produced by, 1948, 152: 179
blood picture, at rest and during exercise, 1942, 137: 593
clearance, and urine flow, 1946, 145: 641
muscle sensitivity to acetylcholine and potassium, 1946, 145: 610
O₂ and CO₂ capacity of blood, 1944, 140: 486

SULFOCYANATE: see THIOCYANATE**SULFOCYANIDE: see THIOCYANIDE****SULFURIC ACID**

blood coagulation, 1940, 130: 576

SUMMATION

electrotonic nature of, 1947, 148: 515
in muscle, 1939, 128: 207
of stimuli, acetylcholine and, 1950, 160: 375
spatial, in retina and optic nerve, 1940, 130: 700
wave, in regenerating mammalian nerve and muscle, 1950, 161: 145

SUMMERS, J. E. DCA and blood pressure, 1948, 154: 119

SUNBURN

erythema of, inhibition by ultraviolet radiation, 1946, 146: 99
erythema threshold for, 1946, 146: 108
protection against, evaluation of method of study, 1946, 146: 118
protective measures against, 1946, 146: 118

SUNDERMAN, F. V. and DOHAN, F. C. Water and electrolytes in experimental diabetes, 1941, 132: 418
— See BAZETT, H. C.

SUPERIOR CERVICAL GANGLION: see SYMPATHETIC NERVOUS SYSTEM, GANGLIA, superior cervical**SUPERIOR MESENTERIC ARTERIES**

blood flow in, 1941, 132: 384
exercise and blood flow, 1940, 128: 341

SUPPRESSION

in brain cortex, 1949, 158: 474

SUPPRESSOR AREAS

role of acetylcholine in, 1948, 153: 114

SUPRARENIN

flow and pattern in peripheral arteries, 1943, 138: 732

SURFACE AREA

blood volume partition and, 1944, 141: 703
renal plasma flow and, 1948, 153: 169
voluntary water intake, and, 1938, 122: 673

SURGERY

blood volume in man, 1950, 161: 239
eosinophiles and blood sugar, 1950, 163: 97

SURTSHIN, A. and ROLF, DORIS. Plasma dye concentration curves, 1950, 161: 483

—, KATZ, L. N. and ROBBARD, S. Pulmonary edema and intracranial pressure, 1948, 152: 589

—, ROBBARD, S. and KATZ, L. N. Inhibition of epinephrine action in severe hypoxemia, 1948, 152: 623

—, ROLF, DORIS and WHITE, H. L. Sodium excretion and glomerular filtration rate, 1951, 165: 429

- See MUELLER, C. B.
 — See VAN LOO, A.
 SUSSMAN, A. H., HEMINGWAY, A. and VISSCHER, M. B.
 Respiratory pressure in pulmonary edema, 1948, 152: 585
 SUTHERLAND, E.: see ALLARDYCE, J.
 SUTTON, VIRGINIA: see ANDERSON, EVELYN
 SVEC, MURIEL H. and FREEMAN, S. Impaired hepatic circulation, 1949, 159: 357
 — See FREEMAN, S.
 — See IVY, J. H.
 SVEDBERG, ANDREA, MADDOCK, S. and DRURY, D. D.
 Total removal of liver in rabbit, 1938, 121: 209
 — See MADDOCK, S.
 SWAN, M. M. Fluctuations of blood lactate, 1943, 140: 125
 SWAN, R. C.: see LOTSPEICH, W. D.
 — See MACLEOD, J.
 SWANK, R. L. Blood changes due to lipemia and heparin, 1951, 164: 798
 — and WILMOT, VALERIE. Chylomicra and intravenous heparin, 1951, 167: 403
 — See ELLIOTT, K. A. C.
 SWANN, H. G. Sodium chloride and diabetes insipidus, 1939, 126: 341
 — See BRUCER, M.
 SWEAT
 chloride, 1944, 141: 576
 factors affecting, 1944, 141: 576
 composition, acclimatization to heat and, 1938, 123: 412
 in work, 1945, 143: 173
 loss, during acclimatization, 1946, 146: 339
 volume, sodium chloride and, in work in dry heat, 1943, 140: 444
 SWEAT GLANDS
 activity, in man, 1946, 147: 391
 responsiveness after denervation, 1951, 165: 356
 SWEATING
 acclimatization and, 1943, 140: 171
 to heat, 1943, 140: 324
 air temperature, humidity and, 1945, 143: 29
 cold, in motion sickness, 1944, 141: 173
 decline of, after prolonged work in severe heat, 1946, 147: 370
 fatigue of mechanisms of, 1947, 149: 486
 following lumbar sympathectomy, 1950, 160: 444
 in regulation of body temperature, 1940, 129: 567
 initiation of, in response to heat, 1946, 145: 713
 net sweating efficiency in dressed man, 1947, 149: 218
 of foot, environmental temperature and, 1946, 146: 372
 physiological mechanism governing, 1938, 124: 696
 rate, in acclimatization to heat, 1947, 148: 89
 sodium chloride and, in work in dry heat, 1943, 140: 444
 response to locally applied heat, 1947, 150: 366
 thermal environment and, 1941, 134: 664
 thermal responses in extreme cold and, 1947, 149: 211
 variation between subjects doing same amount of work, 1947, 149: 214
 work and, 1947, 149: 486
 SWEENEY, H. M. Carotid sinus function, 1940, 130: 186
 — See HANDLEY, C. A.
 — See MAYERSON, H. S.
 SWEENEY, M. J.: see GAEBLER, O. H.
 SWEETOSE
 thiamin and nutritive value of, 1945, 145: 109
 SWEGART, J. E.: see TELFORD, I. R.
 SWIFT
 resistance to anoxia, 1945, 145: 192
 SWIFT, MARGUERITE N.: see BOND, V. P.
 — See PATT, H. M.
 — See TOBIAS, J. M.
 SWIMMING
 blood and, 1938, 121: 293
 capacity for muscular activity and, 1940, 130: 152
 energy expenditure in, 1944, 142: 142
 glycogen and phosphocreatine of heart and, 1943, 138: 652
 SWINGLE, W. W. and KLEINBERG, W. Plasma, gelatin and saline therapy in wound shock, 1944, 141: 713
 —, FEDOR, E. J., BARLOW, G., JR., COLLINS, E. J. and PERLMUTT, J. Pseudopregnancy and adrenal removal, 1951, 167: 593
 —, HAYS, H. W., REMINGTON, J. W., COLLINGS, W. D. and PARKINS, W. M. Desoxycorticosterone in circulatory failure, 1941, 132: 249
 —, KLEINBERG, W. and HAYS, H. W. Gelatin and saline as plasma substitutes, 1944, 141: 329
 —, KLEINBERG, W., REMINGTON, J. W., EVERSOLE, W. J. and OVERMAN, R. R. Nervous factor in traumatic shock, 1944, 141: 54
 —, OVERMAN, R. R., REMINGTON, J. W., KLEINBERG, W. and EVERSOLE, W. J. Adrenal cortex preparations in experimental shock, 1943, 139: 481
 —, PARKINS, W. M. and REMINGTON, J. W. Desoxycorticosterone acetate after adrenalectomy, 1941, 134: 503
 —, PARKINS, W. M., TAYLOR, A. R. and HAYS, H. W. Circulatory failure in adrenal insufficiency, 1938, 123: 659
 —, PARKINS, W. M., TAYLOR, A. R. and HAYS, H. W. Trauma and shock after adrenalectomy, 1938, 124: 22
 —, REMINGTON, J. W., DRILL, V. A. and KLEINBERG, W. Adrenal steroids in circulatory failure, 1942, 136: 567
 —, REMINGTON, J. W., KLEINBERG, W., DRILL, V. A. and EVERSOLE, W. J. Circulatory shock after release of tourniquet, 1942, 138: 156
 —, SEAY, P., PERLMUTT, J., COLLINS, E. J., BARLOW, G., JR. and FEDOR, E. J. Pseudopregnancy in the rat, 1951, 167: 586
 —, SEAY, P., PERLMUTT, J., COLLINS, E. J., FEDOR, E. J. and BARLOW, G., JR. Uterine stimulation of prepuberal rats, 1951, 167: 599
 —, TAYLOR, A. R., COLLINGS, W. D. and HAYS, H. W. Preparation and bioassay of renin, 1939, 127: 768
 — See EVERSOLE, W. J.
 — See KLEINBERG, W.
 — See PARKINS, W. M.
 — See REMINGTON, J. W.
 SWINYARD, C. A.: see CHENG, C.-P.

- SWINYARD, E. A. Brain electrolytes and seizures, 1949, 156: 163
- and TOMAN, J. E. P. Body temperature and convulsive seizures, 1948, 154: 207
- SYKES, J. F., WRENN, T. R., MOORE, L. A. and THOMAS, J. W. Heart rate in hyperthyroidism, 1948, 153: 412
- See MOORE, L. A.
- See SCHAIBLE, P. J.
- SYKOWSKI, P., FAZEKAS, J. F. and HIMWICH, H. E. Formation of acetylcholine by tissues of rat, 1939, 127: 381
- See HIMWICH, H. E.
- SYMPATHECTOMY**
- adrenaline-sensitivity of intestinal muscle, 1942, 137: 87
- adrenergic substances in tissues, 1947, 148: 472
- blood flow through limb, 1948, 152: 499
- blood lactate, 1938, 124: 254
- blood pressure in dogs, 1939, 128: 236
- blood vessels, 1949, 158: 319
- cardiac, ectopic rhythms and, 1951, 165: 505
- carotid sinus reflex and, 1947, 150: 712; 1947, 150: 722
- circulatory response to ether anesthesia, 1941, 133: 70
- corneal mitosis, 1944, 141: 692
- emesis due to vagotomy, 1947, 149: 437
- food intake with insulin, 1947, 149: 100
- gastric secretion and, 1951, 166: 679
- heart, vagal cardio-accelerator fibers and, 1945, 144: 514
- heart rate, 1939, 126: 173
- homeostasis, 1939, 125: 530
- intestinal motility, 1942, 135: 623
- lumbar, denervation and, 1950, 160: 441
- significance of residual pathways, 1950, 160: 441
- maintenance of body temperature, 1950, 162: 306
- plasma volume, 1939, 125: 715
- hematocrit and, 1947, 148: 426
- preganglionic nerve regeneration after, 1940, 128: 465
- reflex pupillo-motor activity, 1940, 131: 144
- reproduction, 1938, 122: 659
- sudden vasoconstriction, 1948, 155: 165
- vascular tone, 1941, 135: 43
- SYMPATHETIC NERVOUS SYSTEM**
- accommodation for far vision, 1940, 128: 588
- activity of hypothalamus, 1938, 122: 530
- adrenergic inhibition at synapses, 1939, 127: 738
- adrenergic-like substances in, 1947, 148: 462
- adrenotropic receptors of, 1948, 153: 586
- anaphylactic shock and, 1938, 124: 637
- central representation, excitability of, 1942, 135: 504
- cervical, lens of eye and, 1941, 133: 720
- stimulation of and BMR, 1939, 125: 156
- trunk, cholinesterase in, 1945, 144: 82
- decussation of fibers, from hypothalamus, 1939, 125: 449
- dispensability of, 1946, 145: 476
- duration of adrenal insufficiency and, 1941, 132: 542
- ganglion, accessory cells in ventral primary ramus of spinal nerves, 1950, 160: 447
- acute anemia and, 1938, 121: 261
- dependence upon central nervous system for activity, 1941, 134: 251
- impulses through, 1938, 122: 1
- isolated, activity in, 1941, 134: 251
- liberation of acetylcholine by, 1938, 121: 331
- paravertebral, hypertension and increased intracranial pressure, 1940, 128: 667
- preganglionic denervation of, 1939, 125: 276
- sensitization of, 1938, 122: 94
- heart rate, 1943, 138: 468
- hypothalamus in regulation of heart rate and, 1941, 132: 5
- in hypoglycemia, 1940, 128: 324
- lumbar, and response to intestinal distention, 1945, 144: 723
- neurones, adrenergic substances in, 1947, 148: 462
- sympathomimetic amines in, 1947, 148: 461
- pathways, to ciliary muscle of eye, 1942, 135: 759
- response to autonomic center activation, 1946, 146: 377
- smooth muscle, 1940, 130: 627
- specific dynamic action of foods, 1939, 127: 642
- spinal shock of urinary bladder and, 1938, 122: 62
- stimulation from tourniquet shock, 1945, 144: 496
- stimulation of heart, and cardiac work, 1950, 163: 539
- SYMPATHETIC NERVOUS SYSTEM, GANGLIA**
- accessory cells in ventral primary ramus of spinal nerves, 1950, 160: 447
- acute anemia and, 1938, 121: 261
- celiac, cholinesterase content, 1945, 144: 82
- reflex center for inhibition of bile flow, 1943, 138: 462
- dependence upon central nervous system for activity, 1941, 134: 251
- impulses through, 1938, 122: 1
- isolated, activity in, 1941, 134: 251
- liberation of acetylcholine by, 1938, 121: 331
- paravertebral, hypertension and increased intracranial pressure, 1940, 128: 667
- preganglionic denervation of, 1939, 125: 276
- removal, circulation years after, 1943, 139: 351
- sensitization of, 1938, 122: 94
- stellate, cardiac response to stimulation of, 1945, 143: 397
- insulin convulsions after removal of, 1938, 124: 202
- stimulation and coronary blood flow, 1939, 126: 398
- TEA and, 1950, 161: 245
- superior cervical, action of eserine on, 1938, 122: 708
- antagonistic drugs and, 1949, 156: 281
- cholinesterase content of, 1945, 144: 82
- depressant action of strychnine on, 1939, 126: 279
- excitability of, 1941, 131: 572
- lachrymal secretion, 1938, 123: 359
- oxyhemoglobin reduction time after stimulation, 1946, 147: 632
- removal, basal metabolism and body temperature and, 1939, 125: 248
- response to activation, 1938, 122: 688
- veratrine and, 1942, 136: 700
- SYMPATHETICO-ADRENAL SYSTEM**
- anoxia, and convulsant drugs, 1940, 131: 281
- excitability and Mg deficiency, 1941, 134: 603

mobilization of vitamin A by, 1940, 131: 210
temperature and, 1941, 133: 670

SYMPATHIN

blood sugar, 1938, 121: 728
933F and, 1938, 124: 62
hyperglycemia and, in emotional excitement, 1938
121: 738
in aqueous humor, 1938, 124: 272
in frog heart, calcium and, 1938, 123: 256
intestinal motility, 1938, 123: 424
reaction of partially denervated smooth muscle to,
1940, 130: 475

SYMPATHOMIMETIC AMINES

intestinal motility, 1939, 126: 241
of various tissues, 1947, 148: 461
respiratory tract fluid, 1943, 138: 565
specific, in brain, 1948, 152: 324
stroke volume of heart, 1948, 153: 292

SYNAPSE: *see* TRANSMISSION (SYNAPTIC)

SYNCOPE

in semi-starved individual, 1948, 152: 141
increased cerebrospinal pressure and, 1940, 130: 685
induced by gravity, 1943, 138: 630
tissue and venous pressures in, 1939, 128: 258

SYNEPHRIN

as cardiac accelerator, 1940, 130: 193
intestinal motility, 1939, 126: 242

SYNKAYVITE "ROCHE"

clotting time and, 1945, 144: 453

SYNOVIAL FLUID

electrochemical study of, 1948, 153: 364

SYNOVIAL MEMBRANE

permeability, to glucose and thiocyanate, 1941,
132: 151
potentials, 1949, 157: 63
enzyme system and, 1949, 157: 68
inhibition, by heavy metals, 1949, 158: 63
inhibition by thiols and heavy metal, 1949,
159: 83
inhibitor combinations and, 1949, 159: 505
resting potential, across, 1948, 153: 379

SYNTROPAN

fibrillation and atrophy of denervated muscle, 1942,
135: 749

SZEGO, CLARA M. and ROBERTS, S. Pituitary and
adrenal antagonism to estrogens, 1948, 152: 131

SZEPSENWOL, J. and MICHALSKI, J. V. Glycogenolysis
in glycogen body of the chicken, 1951, 165: 624

T

T-1824: *see* EVANS BLUE

T-1836: *see* TRYPAN BLUE

TABER, ELSIE, DAVIS, D. E. and DOMM, L. V. Sex
hormones and erythrocyte number in birds,
1943, 138: 479

TABOR, H. and ROSENTHAL, S. M. Body temperature
and O₂ consumption in shock, 1947, 149: 449

—, ROSENTHAL, S. M. and MILLICAN, R. C. Fluid
distribution in shock, 1951, 167: 517

— *See* KORNBERG, A.

— *See* ROSENTHAL, S. M.

TACHYCARDIA: *see* HEART RATE, TACHYCARDIA

TACHYPHYLAXIS

repeated injections of renin and, 1940, 131: 20

TADPOLE

circulation of cerebrospinal fluid in, 1942, 136: 223

TAFFEL, M.: *see* ELKINTON, J. R.

TAGGART, J. V. Protein binding of PAH, 1951, 167: 248

— and FORSTER, R. P. Phenol red transport in fish
tubules, 1950, 161: 167

— *See* CROSS, R. J.

— *See* MUDGE, G. H.

TAGNON, H. J., WEINGLASS, A. R. and GOODPASTOR,
W. E. Shock produced by injection of chymo-
trypsin, 1945, 143: 644

— *See* WEINGLASS, A. R.

TAIL

measurement of volume of, 1950, 162: 226

pilomotor of, electric responses of, 1942, 137: 264

response to graded pressures on, 1949, 158: 113

TAKAHASHI, W. Y.: *see* NICHOLSON, H. C.

TAKARO, T., ESSEX, H. E. and BURCHELL, H. B.
Experimental pulmonary arteriovenous fistula,
1951, 165: 513

TALBOT, L. J.: *see* SELKURT, E. E.

TALBOT, S. A.: *see* JARCHO, L. W.

TALBOTT, J. H., COOMBS, F. S., CONSOLAZIO, W. V.
and PECORA, L. J. R.Q.'s with high sugar in-
take, 1938, 124: 246

— *See* MILLER, G. E.

— *See* ROUGHTON, F. J. W.

TALESNIK, J.: *see* HOFFMANN, F.

TALLMAN, R. C.: *see* BLANCHARD, E. W.

TALSO, P. J. and CLARKE, R. W. Excretion and dis-
tribution of lithium in dog, 1951, 166: 202

TAMING

heart rate in rats and, 1943, 139: 261

TANTURI, C. A. and IVY, A. C. Blood flow through
liver and bile formation, 1938, 121: 61

— and IVY, A. C. Vagus nerve in control of bile
secretion, 1938, 121: 270

TARAIL, R.: *see* SELDIN, D. W.

TARTARIC ACID

blood coagulation and, 1940, 130: 576

TASAKI, I. Electro-saltatory transmission of nerve
impulse, 1939, 127: 211

— Excitation process in single nerve fiber, 1939, 125:
380

— Strength-duration stimulation of single nerve
fiber, 1939, 125: 367

TASTE

lesions affecting olfactory conditioned reflexes and,
1941, 132: 88

sensitivity to homologous compounds, 1951, 165: 249

threshold for sucrose, 1940, 128: 295

in rats and man, 1941, 134: 159

of salt, 1939, 126: 1

TAYLOR, A. C.: *see* WEISS, P.

TAYLOR, A. N.: *see* RALSTON, H. J.

TAYLOR, A. R.: *see* PARKINS, W. M.

— *See* SWINGLE, W. W.

TAYLOR, C. B.: *see* KOTTKE, F. J.

— *See* MILLER, R. A.

- TAYLOR, C. L. Effect of work-load and training on heart rate, 1941, 135: 27
- Exercise, physiological variations and tolerances, 1944, 142: 200
- See ALLEN, S. C.
- See CRESCITELLI, F.
- TAYLOR, ELIZABETH: see MILLS, C. A.
- TAYLOR, H. C., JR.: see WELSH, C. A.
- TAYLOR, H. L., BROZEK, J., HENSCHER, A. F., MICHELSEN, O. and KEYS, A. Fasting and ability to do work, 1945, 143: 148
- , ERICKSON, L., HENSCHER, A. F. and KEYS, A. Bed rest and blood volume of normal subjects, 1945, 144: 227
- , HENSCHER, A. F. and KEYS, A. Cardiovascular adjustments in exposure to dry heat, 1943, 139: 583
- , HENSCHER, A. F. and KEYS, A. Cardiovascular response to posture, 1948, 152: 141
- , HENSCHER, A. F., MICKELSEN, O. and KEYS, A. NaCl intake and work performance in dry heat, 1943, 140: 439
- See ERICKSON, L.
- See HENSCHER, A. F.
- See KEYS, A.
- TAYLOR, L.: see ROBBARD, S.
- TAYLOR, R. D.: see PAGE, I. H.
- TAYLOR, R. M.: see BURTON, A. C.
- TEA: see TETRAETHYLAMMONIUM IONS
- TEETH
- dentin, exchange of phosphorus with enamel, 1942, 135: 482
- distribution of radioactive fluoride, in, 1941, 132: 707
- enamel, exchange of P with dentin, 1942, 135: 482
- fluoride and, 1939, 126: 716
- radioactive P in, 1941, 133: 112
- innervation, hyper-irritability and reduction by block anesthesia, 1948, 152: 658
- manganese, boron and rat incisor, 1943, 139: 233
- zinc content, 1938, 124: 753
- TELENCEPHALON
- stimulation of, colon and, 1946, 146: 189
- TELFORD, I. R., SWEGART, J. E. and SCHOENE, F. C. Vitamin E deficiency and blood pressure, 1945, 143: 214
- TEMPERATURE (BODY except rectal and skin)
- acclimatization, 1943, 140: 170
- acclimatization to heat, 1943, 140: 324
- adrenaline, 1949, 156: 114
- air temperature, 1946, 146: 512
- anesthesia and, 1942, 137: 259; 1943, 140: 178
- anoxia and, 1946, 146: 327
- O₂ consumption and, 1949, 156: 62
- antipyretic agents and brain metabolism, 1951, 164: 727
- arterial pressure and, 1949, 158: 135
- at high altitude, 1946, 146: 714
- blood pressure, 1947, 151: 509
- blood sugar, 1947, 150: 67; 1950, 162: 175
- cold and, 1939, 125: 248
- convulsive seizures, 1948, 154: 207
- decreased, effect on serum potassium, 1940, 129, 249
- deep, climate and, 1940, 129: 84
- dinitrophenol and, 1940, 129: 247
- during water intoxication, 1945, 144: 573; 1946, 146: 564
- during work, 1942, 136: 365
- effect of lowering on baby rats, 1948, 155: 357
- emotion, 1939, 125: 731
- ergotoxine, 1948, 155: 64
- fall of, and nerve conduction, 1948, 155: 179
- heart beat, 1951, 166: 82
- heart rate, 1943, 140: 257
- hemorrhage, trauma, and deafferentation, 1947, 148: 541
- high CO₂, 1947, 151: 479
- humidity and, 1945, 143: 21
- changes during anoxia, 1950, 161: 312
- hyperthyroidism, 1943, 138: 370
- lethal, of birds, 1943, 139: 60
- loss of control of, after prolonged work in severe heat, 1946, 147: 370
- lung edema, and hemorrhage, 1949, 158: 429
- muscle, denervation and, 1947, 150: 705
- vascular resistance in hemorrhagic shock and, 1946, 147: 685
- of sympathectomized dog, 1939, 125: 534
- O₂ consumption, 1947, 149: 457
- O₂ transport and utilization, 1950, 160: 125
- peripheral, and vascular resistance in hemorrhagic shock, 1946, 147: 685
- reaction time, 1938, 121: 495
- regulation, 1950, 162: 301
- by vasomotor mechanisms, 1939, 127: 437
- in cold after adrenalectomy, 1938, 122: 435
- role of viscera in, 1942, 137: 30
- vascular tone and, 1940, 129: 565
- respiration, 1947, 149: 659
- rise due to intraventricular procedures, 1939, 125: 493
- subcutaneous, posture and, 1939, 125: 476
- tolerance of chickens to hypothermia, 1946, 147: 531
- traumatic shock, 1947, 150: 693
- variations in, 1950, 161: 316
- TEMPERATURE (ENVIRONMENTAL)
- ability to work, 1946, 146: 337
- absence of vasoconstrictor reflexes for, in forehead, 1942, 136: 692
- acclimatization to, 1943, 140: 171; 1943, 140: 321; 1947, 150: 99; 1951, 165: 481; 1951, 167: 644; 1951, 167: 651
- composition of sweat, 1938, 123: 414
- long term, 1947, 148: 86
- acetylcholine and choline esterase activity of CNS and, 1941, 132: 591
- activity of the sloth, 1939, 127: 129
- adrenal cortex and, 1949, 156: 368
- water and work in, 1945, 143: 171
- adrenal gland and susceptibility to, 1945, 144: 108
- adrenalectomy and response to, 1938, 121: 178; 1938, 122: 435; 1944, 141: 653
- anesthesia and stress response to, 1950, 160: 499
- arterial reactions of finger to, 1942, 136: 680
- asphyxial spinal cord damage, 1944, 142: 33

- autonomic nervous system, 1941, 133: 670
- blood flow in forearm and hand, 1947, 150: 187
- blood flow in hands, 1945, 145: 218
- blood flow-volume relation in skin, 1947, 150: 128
- blood glutathione, 1951, 165: 575
- blood lactate, 1943, 140: 131
- blood pH, 1940, 130: 9
- blood pressure in mouse, 1948, 153: 330
- blood volume, 1941, 134: 167; 1946, 146: 747
- brain of turtle, 1950, 160: 402
- brain metabolism, 1942, 137: 327
- change and round-window response, 1950, 163: 213
- circulation time in chick, 1948, 152: 383
- clothing and bodily reaction, 1938, 124: 30
- clothing and energy balance in, 1947, 149: 223
- conduction and electrical systole of heart and, 1949, 156: 285
- death of fatigued neurons and, 1938, 122: 551
- denervated muscle temperature, 1947, 150: 707
- desoxycorticosterone in adrenalectomized rats, 1945, 144: 109
- diet and tolerance to, 1946, 146: 73; 1946, 146: 84; 1946, 146: 538; 1949, 159: 34
- dinitrophenol and O₂ consumption, 1946, 147: 527
- dry, cardiovascular adjustments to, 1943, 139: 583
- sodium chloride intake, work performance and, 1943, 140: 439
- electrolyte balance and, 1945, 143: 379
- electrotonic potentials from sheath-free nerves, 1950, 163: 229
- energy metabolism, water balance and, 1948, 152: 233
- excretion of various vitamins and, 1946, 146: 550
- experimental hypertension, 1951, 166: 533
- exposure to, 1948, 152: 242
- extreme, and thermal responses and sweating, 1947, 149: 204
- fasting pigeon and, 1950, 161: 300
- food selection, 1947, 150: 331
- fragility of erythrocytes, 1951, 164: 202
- gastric acidity, 1940, 131: 195
- gastric emptying time, 1944, 141: 206
- glucose tolerance, 1949, 159: 96
- gonadotropic antagonist from pituitary and, 1940, 128: 535
- growth and food consumption of mouse, 1950, 160: 253
- with varied thiamin intake, 1945, 144: 643
- heart rate and, 1944, 142: 693; 1951, 167: 76
- heat loss, 1940, 128: 782
- hemorrhagic shock, and transfusion response, 1946, 147: 158
- humid, cardiac output in, 1940, 131: 54
- humidity and, 1945, 143: 21
- work in, 1946, 147: 370
- in nasopharyngeal passages, and cervical lymph flow, 1940, 128: 352
- in vitro survival time of peripheral nerves, 1946, 147: 82
- increased sensitivity to potassium in, 1947, 151: 366
- infant rats and, 1948, 155: 355
- initiation of sweating in, 1946, 145: 712
- iodine metabolism, 1944, 140: 673
- lanatoside C and resistance to, 1947, 151: 221
- lethal immersion, 1948, 155: 378
- local, effect on cervical lymph pressure, 1939, 127: 156
- response to, in cold environment, 1945, 144: 724
- metabolic responses to, thyroid and, 1950, 163: 81
- metabolism of heart slices, 1950, 163: 643
- NaCl in adrenalectomized rats, 1945, 144: 110
- nasal temperature and volume, 1945, 144: 306
- nerve response, 1941, 134: 703
- ovulation potential, 1943, 140: 406
- O₂ poisoning, 1945, 144: 272
- panting threshold temperature, 1938, 122: 511
- physical work, 1941, 134: 664
- pituitary and adrenal cortex in resistance to, 1942, 136: 25
- pituitrin inhibition of water loss, 1940, 130: 405
- psychomotor performance and, 1946, 146: 78
- pulmonary arterial pressure, 1942, 137: 628
- ram semen and, 1946, 147: 320
- renal function, 1943, 140: 377
- resistance against, 1938, 123: 762
- of spermatozoa, 1944, 141: 621
- to anoxia and, 1944, 142: 312; 1945, 145: 195; 1950, 161: 307
- to G forces and, 1946, 146: 43
- respiration of shark, 1945, 145: 135
- response to pyrogen, 1949, 159: 511
- reversible effects on isolated tissue, 1943, 139: 193
- serum potassium and, 1940, 129: 246
- sexual development, 1950, 162: 24
- skin, feather temperature and, 1951, 166: 572
- skin temperature responses to, 1945, 144: 724
- specific dynamic action of good stuffs and, 1946, 146: 73
- spontaneous activity in rats, 1944, 142: 633
- starvation, adrenal glands and, 1950, 163: 92
- static receptors of labyrinth and, 1944, 141: 404
- stress, renal function and, 1951, 164: 497
- survival after submersion, 1951, 167: 95
- survival of eviscerated rats, 1950, 160: 122
- sweat gland activity, 1946, 147: 391
- sympathectomy and, 1939, 125: 532
- T wave of electrocardiogram and, 1941, 131: 700
- temperature regulatory responses to, 1940, 128: 739
- thermal balance of working men, 1947, 149: 483
- thiamin requirement, 1941, 133: 525
- threshold for heat sense on forehead, 1942, 135: 426
- thrombin activity, 1942, 137: 351
- thyroid activity, 1939, 125: 244; 1940, 130: 549
- tolerance to and dehydration, 1947, 151: 564
- in infant rats, 1948, 155: 366
- of chickens, 1946, 147: 531
- tourniquet shock in rabbits, 1945, 143: 97
- traumatic shock, 1951, 165: 536
- twitch potentiation, 1949, 157: 429
- uptake of water by frogs, 1938, 122: 195
- vascular reaction of finger to, 1942, 136: 669
- vascular system and, as measured by radioactive krypton, 1945, 144: 165

TEMPERATURE (ENVIRONMENTAL)

- vasoconstriction due to after denervation, 1948, 155: 165
- viability, and metabolism of spermatozoa, 1940, 128: 414
- vitamin K deficiency, 1944, 141: 360
- water balance and, 1945, 143: 378
- water shifts in, 1943, 140: 9
- weight gain, 1945, 143: 2
- work, 1944, 142: 254
- X-ray injury and, 1948, 155: 388

TEMPERATURE (RECTAL)

- blood pressure, 1945, 143: 292
- dry heat and, 1943, 139: 586
- during acclimatization, 1946, 146: 338
 - in desert environment, 1950, 163: 590
- environmental temperatures and, in hereditary obesity, 1948, 152: 201
- frequency of meals, content and tolerance of cold, 1946, 146: 87
- genetic variability, 1951, 166: 21
- gravity shock, 1944, 141: 166
- hyperthyroidism and, 1944, 140: 701
- immersion of water, 1946, 146: 262
- in extreme cold, 1947, 150: 102
- in hot, dry environment, 1947, 151: 564
- in long term acclimatization to heat, 1947, 148: 88
- in resting and working subjects, 1941, 134: 677
- in traumatic shock, 1945, 144: 434; 1947, 149: 114
 - and hemorrhagic shock, 1947, 148: 170
- protective clothing and influence of cold, 1946, 146: 75
- shock and, 1947, 148: 101
- sodium chloride intake, 1943, 140: 441
- temperature and humidity of environment, 1945, 143: 29
- under barbital anesthesia, 1941, 134: 354
- under chloralose anesthesia, 1941, 131: 562
- variations in normal fasting dogs, 1942, 137: 33
- vascular resistance in hemorrhagic shock, 1946, 147: 685

TEMPERATURE (SKIN)

- after successive meals, 1948, 152: 183
- air temperature, humidity and, 1945, 143: 29
- barbital anesthesia and, 1941, 134: 354
- blood flow, 1944, 141: 518
- blood pressure, 1939, 127: 726; 1945, 143: 292
- cerebral cortex, 1938, 121: 52
- change of posture, 1938, 124: 161; 1939, 125: 476
- clothing and, at various environmental temperatures, 1938, 124: 44
- during acclimatization in desert environment, 1950, 163: 591
- following lumbar sympathectomy, 1950, 160: 444
- heated kidney extracts and, 1940, 128: 678
- in decompression sickness, 1947, 149: 628
- in resting and working subjects, 1941, 134: 664
- large doses of insulin and, 1939, 128: 127
- local heat in cold environment, 1945, 144: 724
- protamine sulfate and, 1951, 167: 3
- protective clothing and influence of cold, 1946, 146: 75
- PSR and pulse rate during exercise, 1946, 147: 7

- sweating and, 1947, 149: 484
- various environmental temperatures, humidities and, 1940, 128: 782
- vascular tone and, 1940, 129: 571

TEMPERATURE REGULATION

- anoxia and, 1948, 153: 10
- at various environmental temperatures, 1940, 129: 123
- barbital anesthesia, 1941, 134: 352
- chemical, 1941, 134: 596
- development in suckling rats, 1943, 139: 230
- development of hemoconcentration responses to, 1947, 148: 193
- ether anesthesia, 1948, 152: 663
- fibers in the pons and, 1946, 147: 500
- in birds, 1943, 139: 56
- in chickens, by panting, 1939, 127: 761
- in chronic cervical cats, 1940, 130: 715
- in desert environment, 1950, 163: 585
- in hereditary obesity, 1948, 152: 197
- in radiant environment, 1940, 131: 79
- in white rats, 1947, 149: 650
- in inanition, 1938, 122: 646
- muscle tremor in birds, 1942, 136: 619
- nervous control of, 1948, 154: 82
- of clothed body, 1938, 124: 51
- respiration, 1947, 149: 659
- sweating, 1940, 129: 567
- vasomotor nature of, 1939, 127: 437

TEMPERATURE SENSATION

- discrimination in the skin, 1941, 134: 645
- in extreme cold, 1947, 149: 211
- skin areas stimulated, 1941, 135: 20
- spatial summation of heat, 1942, 135: 427

TEMPLETON, H. A. and ERSHOFF, B. H. Survival on single food diets, 1949, 159: 33

TEMPLETON, R. D. and ADLER, H. F. Morphine and transportation in colon, 1940, 131: 428

— and ADLER, H. F. Motility of colon and transportation force, 1940, 130: 69

— See ADLER, H. F.

— See GALAPEAUX, E. A.

— See PATRAS, MARY C.

TENDON

- chloride content, 1938, 122: 228; 1940, 129: 600
- X-ray diffraction pattern, 1945, 144: 634

TENDON REFLEXES

- after spinal cord asphyxiation, 1943, 139: 617

TENNENT, D. M. Water losses through the skin, 1946, 145: 436

— See EDISON, ANN O.

TENOTOMY

- rate of muscular dystrophy, 1939, 128: 98
- various muscle constituents, 1950, 161: 410

TEPLY, L. J., KREHL, W. A. and ELVEHJEM, C. A. Intestinal synthesis of niacin and folic acid, 1947, 148: 91

— See SCHWEIGERT, B. S.

TEPP: see TETRAETHYLPYROPHOSPHATE

TEPPER, RUBY, H. and HELLEBRANDT, FRANCES A. Upright posture and metabolic rate, 1938, 122: 563

- See HELLEBRANDT, FRANCES A.
- TEPPERMAN, J., BODANSKY, O. and JANDORF, B. J.
Exercise and methemoglobinemia, 1946, 146: 702
- TEREPKA, A. R.: see KOCHAKIAN, C. D.
- TERESI, J. D., ELVEHJEM, C. A. and HART, E. B.
Nutritional significance of molybdenum, 1942, 137: 504
- , HOVE, E., ELVEHJEM, C. A. and HART, E. B.
Boron in nutrition of rat, 1944, 140: 513
- TERRANOVA, R.: see SCHERF, D.
- TERRIER, JEAN C.: see WAKIM, K. G.
- TERROUX, K. G., GERTLER, M. M. and HOFF, H. E.
Alkali tolerance of dog heart, 1947, 148: 1
- TERUS, W. S.: see BLUM, H. F.
- TESCHAN, P. and GELLHORN, E. Temperature and cortical activity, 1949, 159: 1
- TESTES**
B-complex deficiency, 1950, 161: 517
chloride content, 1938, 122: 228
enzymatic conversion of cyanide to thiocyanate in, 1948, 153: 351
exchange of radioactive and tissue potassium, 1941, 135: 152
extract, and blood pressure of dog, 1942, 137: 284
gonadotropic hormones, 1938, 122: 319
hyperthyroidism, 1947, 150: 96
lithium, 1949, 157: 177
optimum pH for O₂ consumption, 1939, 127: 293
O₂ consumption in various media, 1939, 127: 297
pituitary extract and weight of, 1939, 128: 172
potassium arsenite and metabolism of, 1943, 139: 720
radioactive chlorine in, 1941, 134: 86
radioactive colloidal gold in, 1951, 164: 830
radioactive iodine in, 1941, 132: 348
radioactive potassium in, 1941, 132: 483
water content, diet, exercise and, 1940, 128: 539
weight, androgens and, 1948, 154: 461
body size in chicks and, 1940, 129: 286
- TESTOSTERONE**
-acetate-3, propionate-17, body weight and, 1949, 158: 54
acid and alkali phosphatase, 1947, 150: 584
action in guinea pig, 1948, 155: 243
adrenal size, 1945, 144: 654
alkaline phosphatase, 1948, 152: 259
amount absorbed and organ weights, 1946, 145: 551
anabolic effect in rat, 1950, 162: 581
arginase and phosphatase, 1948, 155: 252
benzoate, amount absorbed and organ weights, 1946, 145: 551
body weight of mice, 1949, 158: 55
bioassay of, 1947, 150: 447
biotin deficiency, 1950, 161: 8
blood amino acids, 1940, 128: 777
body weight of mice, 1949, 158: 54
body and organ weights of castrated mice, 1948, 155: 266
dietary achromotrichia, 1944, 141: 260
epi-, and body weight of mice, 1949, 158: 55
erythrocyte count, 1943, 138: 481
erythropoiesis, 1951, 165: 476
17-ethyl, and body weight of mice, 1949, 158: 55
ethynyl, amount absorbed and organ weights, 1946, 145: 551
body weight of mice and, 1949, 158: 55
phosphatases of kidney and, 1945, 145: 120
fat metabolism, 1938, 122: 73
fibrillation and atrophy of denervated muscle, 1942, 135: 750
hypertensive rats after hypophysectomy and, 1946, 147: 471
hypophysectomized and castrated animals and, 1938, 121: 787
involution of thymus, 1940, 130: 384
kidney function, 1951, 165: 93
liver protein, 1951, 165: 75
nitrogen and chloride excretion, 1948, 155: 272
parabiotic barrier to, 1950, 161: 58
phosphatases of kidney, 1945, 145: 120
plus α -estradiol, body and organ weights of castrated mice and, 1948, 155: 266
plus MDDA, body and organ weights of castrated mice and, 1948, 155: 266
pregnancy in ovariectomized rabbits, 1938, 124: 486
protein anabolism due to, 1950, 160: 55; 1950, 163: 332
quantitative effect of, 1938, 124: 260
recovery from starvation and, 1951, 166: 568
renal hypertension, 1940, 130: 570
survival after adrenalectomy, 1940, 131: 445
tubal contractions, 1940, 129: 261
17-vinyl-, and body weight, 1949, 158: 55
weight of seminal vesicles and prostate, 1943, 140: 232
x-ray injury, 1949, 159: 277
- TESTOSTERONE PROPIONATE**
activity in male and female, 1950, 160: 62
amount absorbed and organ weights, 1946, 145: 551
body weight of mice, 1949, 158: 54
comparison with growth hormone, 1950, 160: 66
masculinization of female rats by, 1940, 129: 192
phosphatases of kidney, 1945, 145: 120
protein anabolic effect in castrated rat, 1950, 160: 55
- TESTOSTERONE, METHYL**
action in guinea pig, 1948, 155: 243
amount absorbed and organ weights, 1946, 145: 551
arginase and phosphatase and, 1948, 155: 252
body weight of mice, 1949, 158: 55
creatine metabolism, 1949, 157: 404
kidney phosphatase and, 1945, 145: 120; 1948, 152: 259
protein anabolism in castrated rat, 1950, 160: 55
- TETANY**
anti-, magnesium blood level and, 1942, 135: 493
blood potassium in, 1938, 124: 192
due to parathyroidectomy, 1942, 137: 461
magnesium deficiency and, 1938, 121: 416
of muscle and electrolyte composition, 1940, 129: 264
parathyroid, food intake and, 1938, 122: 722
parathyroprival, vagal section and, 1940, 129: 766
vagal section and parathyroprival, 1940, 129: 770

TETRACAINE

energy-rich phosphates and cardiodynamics in heart-lung preparation, 1947, 150: 739

TETRACHIS(β -CHLOROETHYL)ETHYLENEDIAMINE

convulsant activity of, 1950, 160: 197

TETRAETHYLAMMONIUM IONS

action on chemoreceptor and stretch receptor, 1948, 153: 601

adrenal cortex, 1950, 160: 492

arterial pressure, 1950, 160: 422

in cross-circulation experiments, 1949, 159: 443

asphyxial pressor response, 1950, 163: 554

bromide, denervated nictitating membrane and, 1949, 156: 280

cardiovascular reflexes and, 1949, 157: 158

carotid occlusion, arterial pressure and, 1950, 162: 556

chloride, arterial pressure response to Valsalva test and, 1948, 154: 322

inhibitory effect on intestinal motility, 1951, 165: 378

vascular action, 1949, 158: 403

failure to block pressor paths, 1950, 163: 290

stellate ganglion and, 1950, 161: 245

vascular reactivity to, 1949, 156: 416

TETRAETHYLPYROPHOSPHATE

brain dehydrogenases, 1949, 157: 466

inhibition of brain oxidation, 1949, 157: 301

respiration and electrical activity of frog brain, 1949, 157: 299

TETRAMETHYL GLYCOL: see PINACOL**TETRAMETHYLAMMONIUM IODIDE**

blood sugar level, 1940, 131: 510

TETRATHIONATE

nephrotoxic action and chemistry of, 1946, 147: 125

potassium secretion, 1950, 161: 155

THACKER, C. W.: see MACLACHLAN, P. L.**THALAMUS**

anterior nuclei, and olfactory discrimination, 1943, 139: 446

augmentation and repetition with cortex, 1943, 138: 297

cholinesterase content, 1948, 155: 61

connections with cortex, 1942, 135: 283

cortical relay system with, 1943, 138: 283

cortical responses after removal, 1941, 131: 724

glycogen content, and age, 1946, 146: 390

glycolysis during growth, 1944, 142: 545

O₂ consumption, 1941, 132: 455

stimulation, colon and, 1946, 146: 189

cortical potentials and, 1942, 135: 294

termination of trigeminal and spinal tracts in, 1942, 137: 409

THALE, T. see OPPER, L.**THATCHER, J. S. and RADIKE, A. W. Potassium intoxication tolerance, 1947, 151: 138****THAYER, SYLVIA: see MCCARRELL, JANE D.****THEBESIAN VESSELS**

drainage of, and coronary flow, 1945, 143: 245

of heart, role, 1941, 132: 648

THEELIN: see ESTRONE**THEOBROMINE**

urea formation, 1946, 147: 428

THEOPHYLLINE

blood flow in bronchial artery, 1947, 148: 661

cardiac output, 1949, 157: 353

cardiovascular system, 1945, 144: 167

diuresis due to, 1944, 142: 249; 1947, 150: 529

urea formation, 1946, 147: 429

THEPHORIN

nerve fiber, 1951, 164: 515

nerve sheath as barrier to penetration of, 1951, 166: 236

THERMAN, P. O. Action potentials of the squid eye, 1940, 130: 239**— See RENSHAW, B.****THERMOSTROMUHR**

blood flow recorded with, 1948, 153: 156

calibration curves for, 1941, 132: 376

errors in application of, 1942, 136: 263

measurement of blood flow, 1941, 132: 489

of cerebral blood flow, 1941, 132: 640

observations on accuracy of, 1942, 136: 250

THIAMIN

action of acetylcholine on muscle, 1946, 147: 233

appetite in rats, 1939, 127: 202

carbohydrate appetite, 1941, 131: 639

energy value of dextrose, 1942, 137: 573

erythropoiesis, 1945, 145: 58

estimated consumption in Army training centers, 1945, 144: 590

excretion, 1945, 144: 9; 1945, 144: 59; 1947, 149: 145

during starvation and dehydration, 1947, 148: 605

on restricted diets, 1947, 149: 145

on various levels of intake, 1946, 145: 628

fibrillation and atrophy of denervated muscle, 1942, 135: 750

food intake, hyperthyroidism and, 1941, 132: 629

frog ventricle, 1942, 135: 464

glucose metabolism in starvation and dehydration, 1947, 148: 604

growth in tropical environment, 1945, 144: 643

hyperthyroid rats and, 1938, 124: 683

intestinal absorption of insulin, 1941, 132: 281

intestine of deficient rat, 1941, 132: 636

kidney weight, 1938, 121: 107

liver function and tachycardia in hyperthyroid dogs, 1942, 136: 762

load test and fasting excretions of, 1947, 149: 257

massive doses and reduced caloric intake, 1947, 150: 553

muscular dystrophy and avitaminosis-E, 1941, 132: 211

nutritive value of dextrose and sucrose, 1945, 143: 340

of blood, 1942, 137: 732

of body fluids during dietary restrictions in man, 1946, 147: 47

of organs, 1947, 149: 257

of tissues after thyroid feeding, 1938, 122: 486

of urine, blood, and feces, on various diets, 1947, 148: 624

- requirement, 1939, 126: 291
 environmental temperature and, 1941, 133: 525
 with increasing age, 1948, 153: 31
 resistance to reduced pressure, 1945, 145: 132
 respiration of brain suspensions, 1945, 144: 338
 response to intravenous glucose, 1941, 133: 43
 specific dynamic action of carbohydrates, 1947, 148: 51
 of food and, 1943, 138: 488
 temperature and requirement for, 1947, 149: 376
 thrombin and enzymatic inactivation of, 1950, 162: 665
 utilization of dextrose and casein, 1944, 141: 346
 of fructose, 1948, 154: 499
 work output of perfused muscle, 1944, 142: 269
- THIAMIN DEFICIENCY**
 alloxan diabetes and, 1948, 153: 417
 behavior and neurophysiology, 1944, 141: 445
 changes in appetite, 1938, 124: 596
 concentrations of adrenal cortical hormones, 1941, 134: 125
 heart, 1945, 144: 404
 intestine, 1941, 132: 636
 iodide metabolism in, 1951, 167: 576
 pyruvate, lactate, and glucose blood levels, 1947, 148: 325
 resistance to anoxia, 1944, 140: 604
 response of respiratory enzymes to thyroid, 1950, 161: 29
 response to intravenous dextrose, 1941, 133: 43
 specific dynamic action, of high carbohydrate diet, 1947, 148: 51
 weight changes of adrenals in, 1941, 134: 121
- THIAMIN TRIPHOSPHORIC ACID**
 heart, 1949, 158: 279
- THIENES, C. H.:** *see* NAKAMURA, K.
- THIOCYANATE**
 enzymatic formation from cyanide, 1948, 153: 348
 gastric potential, 1946, 147: 73
 gastric potentials and secretion, 1945, 144: 701
 inhibition of carbonic anhydrase and gastric acid secretion by, 1940, 129: 507
 intravenous distribution, 1942, 138: 126
 measurement of extracellular fluid with, 1943, 139: 239
 method for measuring distribution of body fluids, 1943, 139: 256
 passage from blood into joint spaces, 1941, 132: 152
- THIOCYANATE SPACE:** *see* EXTRACELLULAR FLUID, measurement with thiocyanate
- THIOCYANATES**
 Na, blood pressure and, 1939, 128: 236
 intestinal secretion and, 1944, 141: 593
 measurement of tissue fluid volume in children, 1947, 151: 438
 method of measuring available fluid volume with, 1939, 125: 143
 pressor action of renin and, 1944, 141: 416
 NH₄, absorption from alimentary tract and, 1942, 135: 334
 enzyme activity and, 1942, 135: 335
- THIOCYANIDE**
 distribution of massive infusion of, 1940, 130: 424
- THIOLS**
 heavy metal inhibition of metabolism, 1949, 159: 83
 synovial membrane potentials, 1949, 157: 73
- THIOFENTOL**
 asphyxial depolarization potential, 1950, 160: 453
 blood gas transport and, 1948, 153: 81
 brain metabolism, 1945, 143: 41
 carbohydrate metabolism, 1938, 122: 759
 cerebral cortex, 1946, 147: 343
 hemorrhage and Hb in anesthesia with, 1944, 142: 41
 Herring-Breuer reflex under, 1948, 154: 428
 intramuscular, and blood pressures, 1945, 143: 90
 muscle electrolytes and water following, 1951, 167: 298
 stress response of adrenal cortex, 1950, 160: 499
 survival after explosive decompression, 1950, 162: 456
- THIOPHENE-2-SULFONAMIDE**
 resting potential of nerve, 1948, 153: 97
- THIOSALICYLIC ACID:** *see* SALICYLIC ACIDS, thio-
- THIOSORBITOL**
 in prophylaxis of tetrathionate poisoning, 1946, 147: 122
- THIOSULFATE**
 as a means of determining rate of glomerular infiltration, 1946, 146: 355
 method of determining in plasma and urine, 1946, 146: 348
 renal clearance, 1946, 146: 352
 volume distribution, 1946, 146: 354
- THIOETHYLMINE:** *see* THIOURACIL, methyl-
- THIOURACIL**
 bone marrow respiration in vitro, 1945, 145: 72
 hypertrophy of adrenal medulla due to, 1945, 144: 71
 liver regeneration, 1948, 153: 397
 metabolism, 1946, 146: 440
 methyl-, and liver regeneration, 1949, 157: 229
 neuromuscular atrophy and regeneration, 1947, 151: 91
 phospholipid turnover, 1948, 155: 402
 physiological mechanism of goitrogenesis due to, 1948, 152: 150
 plasma and liver protein, 1947, 149: 561
 primary potential of, 1949, 159: 86
 propyl-, and liver regeneration, 1949, 157: 229
 ram semen and, 1946, 147: 320
 specific dynamic action and, 1947, 151: 130
 tissue metabolism, 1944, 141: 93
 two-, and liver regeneration, 1949, 157: 229
- THIOUREA**
 absorption, excretion and distribution, 1945, 143: 716
 derivatives, tubular reabsorption, 1941, 135: 113
 s-diethyl-, renal tubular reabsorption, 1941, 135: 119
 inhibition of cytochrome oxidase, 1941, 131: 586
 intoxication, thyroid feeding, thyroidectomy, and adrenalectomy and, 1945, 144: 742
 methyl-, renal tubular reabsorption, 1941, 135: 119
 muscular atrophy, 1949, 159: 7
 of blood, 1945, 143: 719
 O₂ consumption of frog muscle, 1941, 135: 244
 phenyl-, renal tubular reabsorption, 1941, 135: 119

THIOUREA

- primary potential, 1949, 159: 86
- tubular reabsorption, 1941, 135: 113
- uterine respiration, 1940, 128: 658

THIRD CRANIAL NERVE

- anoxia and, 1945, 143: 287

THIRST

- atropine and, 1949, 157: 149
- in esophagostomized dogs, 1949, 159: 533
- in salt deficient dogs, 1951, 164: 407
- induced by hypertonic solutions, 1950, 162: 326
- inhibition in stomach, 1950, 161: 374
- intense, after muscle trauma, 1947, 148: 107
- mechanism of production, 1939, 125: 94
- osmometric analysis, 1950, 161: 75
- pituitrin inhibition of water loss in rats, 1940, 130: 405
- produced by intravenous salt solution, 1947, 151: 252
- salivary flow and, 1947, 151: 252
- sodium, chloride and, 1950, 162: 338

THOMAS, D. B.: *see* GRIFFITH, F. R., JR.

THOMAS, J. E. Gastric inhibition by amino acids in small intestine, 1942, 135: 609

—, and CRIDER, J. O. Bile in intestine and pancreatic secretion, 1943, 138: 548

—, and CRIDER, J. O. Hydrolyzed protein in intestine and gastric motility, 1939, 126: 28

—, and CRIDER, J. O. Intestinal acid as pancreatic stimulus, 1940, 131: 349

—, and CRIDER, J. O. Pancreatic secretion in response to various stimuli, 1944, 140: 574

—, and CRIDER, J. O. Protein digestion and pancreatic secretion, 1941, 134: 656

— *See* BEAMER, W. D.— *See* BERK, J. E.— *See* CRIDER, J. O.— *See* FRIEDMAN, M. H. F.— *See* MUNRO, MURIEL P.THOMAS, J. W.: *see* SYKES, J. F.THOMAS, N.: *see* SELLERS, E. A.THOMAS, O. F.: *see* ASHWORTH, C. T.

THOMAS, W. D. and ESSEX, H. E. Hepatic venous circulation, 1949, 158: 303

THOMETZ, A. F.: *see* SCHWERMA, H.

THOMPSON, D. D. BARRETT, M. J. and PITTS, R. F. Glomerular perfusion and filtration rate, 1951, 167: 546

— *See* KUPFER, S.THOMPSON, L.: *see* GELLHORN, E.THOMPSON, M. B.: *see* GELLHORN, E.

THOMSON, J. D., MORGAN, J. A. and HINES, H. M. Mammalian nerve and muscle, 1950, 161: 142

— *See* DIAZ-GUERRERO, R.— *See* HINES, H. M.— *See* LAZERE, B.— *See* MORGAN, J. A.

THORACIC DUCT

- fluid, toxicity in traumatic shock, 1943, 139: 307
- motor control of, 1943, 139: 600
- output of lymphocytes from, 1945, 144: 297

THORACIC PRESSURE REFLEX

- under pentothal anesthesia, 1948, 154: 428

THORACICO-LUMBAR AUTONOMIC FIBERS: *see* NERVE FIBERS

THORAX

- pressure volume diagram, 1946, 146: 161

THORIUM

- inhibition of blood coagulation, 1940, 128: 404

THORN, G. W., JONES, B. F., LEWIS, R. A., MITCHELL, E. R. and KOEFF, G. F. Role of adrenal cortex in anoxia, 1942, 137: 606

— *See* DORRANCE, S. S.— *See* INGLE, D. J.— *See* KOEFF, G. F.

THORNTON, J. J. and GREGG, D. E. Chronic occlusion of coronary veins, 1939, 128: 179

— *See* GREGG, D. E.THORP, F., JR.: *see* SCHAIBLE, P. J.THORP, W. T. S.: *see* DOW, R. B.

THREONINE

- carbohydrate formation from, 1940, 131: 252

THROMBIN

- a proteolytic fibrinogenase, 1938, 122: 596

- activity of purified, 1942, 137: 348

- as affected by sphingomyelin, 1944, 141: 341

- concentration and electrolytes, 1940, 128: 403

- experimental formation of, 1938, 123: 341

- inactivation, 1939, 126: 313

- heparin and, 1951, 165: 195

- thyroidectomy and, 1950, 162: 289

- nature of action of labile factor, 1950, 160: 572

- specificity of action, 1939, 126: 310

- water-soluble vitamins and, 1950, 162: 665

THROMBOCYTES

- benzene poisoning, on low protein diets and, 1945, 145: 170

- vitamin B₆ and, 1945, 144: 353

THROMBOCYTOPENIA

- hemostasis and, 1947, 148: 281

THROMBOCYTOPENIC PURPURA

- thrombopenia of shock and, 1945, 145: 277

THROMBOPENIA

- in anaphylactic and peptone shock, 1945, 145: 274

THROMBOPLASTIC ENZYME

- clotting of hemophilic plasma by, 1939, 126: 669

THROMBOPLASTIC SUBSTANCE: *see* THROMBOPLASTIN

THROMBOPLASTIN

- blood coagulation, 1940, 131: 455

- co-factor for, 1947, 150: 381; 1947, 150: 406; 1951, 164: 105

- hepatectomy and, 1951, 164: 111

- from brain and skin, 1942, 137: 179

- in placental toxin, 1947, 149: 123

- in saliva, 1939, 125: 110

- injection into dogs, 1942, 137: 281

- preparation and standardization of, 1949, 159: 303

- species specificity, 1941, 132: 240

THUJONE

- acetylcholine content of brain, 1950, 162: 472

THYMECTOMY

- adrenals, 1940, 128: 478

- growth and development, 1940, 130: 672

- neuromuscular atrophy and regeneration, 1947, 151:

- THYMIN**
ultraviolet irradiation and, 1951, 167: 368
- THYMOXYETHYLDIETHYLAMINE:** *see* 929F
- THYMUS**
acetylcholine synthesis, 1947, 148: 418
adrenals, 1940, 128: 477
alkaline phosphatase of, 1950, 163: 651
bioassay of hormone, 1951, 166: 550
cholinesterase in, 1947, 148: 677
estradiol distribution after injection, 1951, 165: 672
estrogens and x-ray injury to, 1949, 159: 275
removal, 1938, 123: 319
sodium and potassium content, 1950, 162: 186
testosterone, estrogens and, 1948, 155: 266
vitamin B complex deficiency and, 1950, 161: 516
vitamin E deficiency and, 1941, 132: 265
water content, diet, exercise and, 1940, 128: 539
weight, diet and, 1941, 131: 646
 estrogens and, 1947, 151: 127
 salt restriction and, 1951, 165: 130
 steroids and, 1944, 142: 315; 1946, 145: 551
- THYROID**
acetylcholine synthesis, 1947, 148: 418
activity after iodine ingestion, 1941, 134: 633
 resistance to peptic ulcer and, 1949, 157: 216
 response to estrone and, 1947, 150: 760
anterior pituitary and, 1948, 152: 263
anti-, action of thymus hormone, 1951, 166: 550
calcium and phosphorus metabolism, 1942, 135: 421
cholinesterase in, 1947, 148: 677
cold, thyrotropic hormone and, 1940, 130: 549
diuretic action in diabetes insipidus, 1944, 141: 189
ECG, and 1948, 152: 100
ergothioneine and, 1949, 156: 377
extract, from parrot fish, and, 1948, 153: 215
feeding, and thiourea intoxication, 1945, 144: 742
function in maintaining heat production, 1942, 137: 582
 respiratory metabolism and estrogenic substances, 1938, 124: 114
 stress and, 1949, 159: 291
gastric function, 1951, 166: 131
growth and food consumption of mouse, 1950, 160: 253
heat and cold and metabolism, 1944, 140: 674
high O₂ poisoning and, 1949, 156: 182
hypertension and, 1951, 166: 530
iodine content, estrone and stilbestrol and, 1945, 144: 363
 hyperplasia and, 1940, 128: 568
iodine fixation in, and hypophysis, 1941, 134: 551
iodine uptake by, 1939, 127: 568
jejunal secretion, 1944, 141: 598
non-thyroxin factor and gastric function, 1951, 166: 131
of parrot fish, 1948, 153: 222
O₂ consumption of muscles, 1944, 142: 399
pituitrin and, in control of diabetes insipidus, 1944, 141: 192
radioactive iodine in, 1941, 132: 348
reaction in cold environment, 1950, 163: 81
seasonal activity in mallard, 1949, 158: 341
secretion in growing and mature mice, 1947, 150: 687
stimulation by cold, 1939, 125: 244
succinoxidase and cytochrome oxidase of liver, 1946, 145: 695
teleost, 1948, 153: 215
therapy, and skull bones, 1941, 133: 617
thiouracil and metabolism, 1944, 141: 93
 uptake of iodine and, 1950, 162: 590
thiourea intoxication and, 1945, 144: 742
thyrotropic hormone and, 1938, 124: 110
uptake of radioactive bromine by, 1941, 134: 109
 of radioactive iodine, 1951, 164: 35
vitamin A and iodide and, 1948, 152: 263
water content, diet and exercise, 1940, 128: 539
weight, androgens and, 1948, 154: 461
 hypertension and adrenalectomy and, 1939, 125: 589
 in mice, 1947, 150: 688
 iodine content and, 1940, 128: 567
 muscular atrophy and, 1949, 159: 9
- THYROIDECTOMY**
acclimatization and survival to cold after, 1951, 165: 481
adrenals and gonads, 1938, 121: 224
adrenaline effect, 1950, 161: 550
basal metabolic rate and body temperature, 1939, 125: 247
cardiac output and O₂ consumption, 1947, 151: 239
cholinesterase content of blood and tissue, 1948, 154: 497
compensatory adrenal hypertrophy, 1938, 123: 266
erythropoiesis and, 1951, 165: 478
excretion of creatine and creatinine, 1941, 132: 189
gastric secretion, 1947, 150: 376
gestation period, 1939, 126: 234
glucose metabolism, 1951, 166: 541
heat production, 1938, 124: 114
maternal behavior, 1942, 137: 299
metabolism, 1946, 146: 440
pancreatic diabetes, 1938, 122: 367
phlorhizin diabetes, 1939, 128: 113
renal function, 1947, 149: 407
renal growth response to, 1946, 145: 682
sensitivity to adrenine, 1938, 121: 560
serum cholesterol and basal metabolic rate, 1940, 131: 317
serum protein level, 1942, 136: 308
stilbestrol effect after, 1946, 145: 413
thiourea intoxication and, 1945, 144: 742
vaginal section and, 1940, 129: 766
vagotomy and, 1940, 129: 768
- THYRONINE**
ascorbic acid oxidation and, 1951, 167: 349
- THYROPARATHYROIDECTOMY**
dietary factors and, 1938, 122: 409
phlorhizin diabetes, 1939, 128: 113
serum calcium and citric acid, 1950, 160: 341
skull bones, 1940, 131: 129
- THYROPROTEIN**
feeding and egg production, 1947, 149: 386
heart rate after feeding of, 1948, 153: 412

THYROTROPHIN: *see* **THYROTROPIC HORMONE**

THYROTROPIC HORMONE

- activity, 1940, 129: 724
- augmentation of activity, 1940, 129: 724
- formalin and, 1939, 125: 113
- joint swelling and, 1951, 166: 344
- lactation, 1947, 150: 398
- liver arginase, 1943, 138: 443
- liver weight, 1942, 135: 401
- N.P.N. of blood, 1942, 137: 205
- organ hypertrophy due to, 1938, 124: 110
- regulation of after stalk section, 1951, 167: 569
- thyroid gland, 1940, 130: 555
- urinary nitrogen, 1942, 137: 547

THYROXIN

- acclimatization and, 1951, 167: 644
- adrenal gland weight, 1938, 122: 586
- amniotin and, respiratory metabolism, and, 1938, 124: 114
- ascorbic acid oxidation and, 1951, 167: 349
- basal metabolism, 1947, 149: 402
- blood amino acids, 1940, 128: 777
- carbohydrate metabolism, 1938, 122: 547
- cardiac and metabolic effects, 1944, 141: 34
- diet and effects, 1949, 159: 33
- disturbed carbohydrate metabolism, 1939, 125: 221
- excretion by liver, 1950, 162: 17
- food selection and intake, 1947, 150: 336
- hair growth, 1940, 129: 554
- heat production and water metabolism, 1942, 135: 574
- intestinal absorption, 1938, 123: 577
- lactation, 1947, 150: 398
- liver and kidney metabolism, 1938, 122: 296
- liver regeneration and nucleic acid content, 1949, 157: 225
- liver weight of hypophysectomized rats, 1942, 135: 402
- mammalian heart, 1947, 148: 694
- maternal behavior, 1942, 137: 299
- metabolism of, 1948, 154: 1
- metabolism of liver and kidney, 1938, 122: 169
- muscular atrophy, 1949, 159: 7
- oral effectiveness of sodium salts, 1949, 156: 381
- O₂ consumption of muscles, 1944, 142: 399
- phospholipid turnover, 1948, 155: 402
- phosphorus metabolism, 1942, 138: 177
- radiation lethality and, 1951, 165: 639
- ram semen, 1946, 147: 320
- renal function, 1943, 139: 546
- sensitivity to adrenine, 1938, 121: 561
- sensitization of autonomic nervous system by, 1940, 131: 394
- serum protein levels, 1942, 136: 308
- skull bones in thyroparathyroidectomized animals, 1940, 131: 130
- urinary nitrogen, 1942, 137: 547

TIBIA

- phosphorus turnover in, 1942, 138: 176
- rickets and mechanical properties of, 1942, 138: 27

TIBIAL NERVES

- strychnine and, 1939, 125: 176

TIBIALIS ANTICUS MUSCLES

- central effect of sodium sulfide on, 1938, 123: 687
- reflex contraction of and carotid body, 1938, 123: 677

TIDAL AIR

- anoxia and, 1947, 148: 394; 1947, 148: 409

TILLOTSON, I. G.: *see* **INSULL, W., JR.**

TILLOTSON, R. F.: *see* **HARRIS, A. S.**

TILLSON, ELIZABETH K.: *see* **BEYER, K. H.**

TILTING

- blood pressure and, 1943, 138: 391

TIN

- growth of goldfish, 1940, 130: 666

TINSLEY, M. *see* **RODBARD, S.**

TIPTON, ISABEL H.: *see* **TIPTON, S. R.**

TIPTON, S. R. Cortin and electrolyte changes in muscle, 1938, 124: 322

- Respiration of isolated tissues after adrenalectomy, 1941, 132: 74

- Respiration of tissue slices and adrenal extract, 1939, 127: 710

- Vitamin B, thyroid and respiratory enzyme, 1950, 161: 29

- , LEATH, MARTHA JEAN, TIPTON, ISABEL H. and NIXON, W. L. Endocrines and respiratory enzymes, 1946, 145: 693

TISSUE

- connective, vitamin P and ground substance, 1949, 157: 422

- exchange rate to blood plasma, 1951, 164: 159

- intramuscular, pressure in, 1939, 128: 260

- leukemic, potassium arsenite and, 1943, 139: 719

- respiration of, 1943, 139: 719

- lymphatic, injected insulin and, 1948, 152: 267

- lymphoid, cholinesterase content, 1947, 150: 750

- metabolism, in lymph after burns, 1944, 142: 284

- permeability to radioactive sodium and phosphorus, 1941, 132: 215

- phosphatase in, in scurvy, 1942, 135: 487

- subcutaneous, metabolism of progesterone in, 1944, 142: 327

- pressure in, 1939, 128: 260

TISSUE CULTURE

- ascorbic acid and epithelial cells, 1943, 139: 21

- of renal tubules, 1944, 141: 138

TISSUE EXTRACTS

- compared with placental toxin in thromboplastin content, 1947, 149: 125

TISSUE HOMOGENATES

- induction of pseudopregnancy with, 1951, 167: 589

TITANIUM DIOXIDE

- evaluation of protection afforded against sunburn, 1946, 146: 123

TITELBAUM, S.: *see* **KLEITMAN, N.**

TOAD

- kidney, as source of renin, 1942, 136: 733

- O₂ consumption of retina in, 1943, 139: 13

- response to heterologous renin, 1942, 136: 733

- strength-duration relation in nerve fiber from, 1939, 125: 373

- use for pregnancy test, 1950, 163: 294

- TOADFISH**
renal and cardiovascular responses to epinephrine in
1939, 126: 351
sucrose and kidneys of, 1944, 141: 435
- TOBACCO**
use, rate of CO uptake and, 1946, 147: 354
- TOBIAS, C. A., LAWRENCE, J. H., ROUGHTON, F. J. W.,
ROOT, W. S. and GREGERSEN, M. I.** Elimina-
tion of CO and its possible conversion to CO₂,
1945, 145: 253
- , **LOOMIS, W. F. and LAWRENCE, J. H.** Skin in
decompression sickness, 1947, 149: 626
- TOBIAS, J. M., POSTEL, S., PATT, H. M., LUSHBAUCH,
C. C., SWIFT, M. N. and GERARD, R. W.** Pul-
monary irritant site of action, 1949, 158: 173
- *See* PATT, H. M.
- TOCANTINS, L. M.** Antithromboplastic activity in
plasma, 1943, 139: 265
- Contracting surface and coagulation of blood
plasma, 1945, 143: 67
- TOCOPHEROLS**
 α -, and blood clotting time, 1948, 153: 127
 δ -, lack of conversion to α -tocopherol, 1950, 160: 259
destruction by rancid fat, 1939, 125: 593
fibrillation and atrophy of denervated muscle, 1942,
135: 750
 γ -, lack of conversion to α -tocopherol, 1950, 160: 259
minimal requirements of rats, 1940, 131: 268
neuromuscular atrophy and regeneration, 1943, 139:
183
utilization by laying hens, 1950, 160: 259
- TODHUNTER, E. N. and BREWER, W.** Ascorbic acid
and phosphatase of blood in scurvy, 1940, 130:
310
- TOE**
temperature, in extreme cold, 1947, 150: 102
tip, variations in volume, 1942, 136: 433
water loss from, 1941, 132: 748
- TOE SPREADING REFLEX**
mechanism of, in cat, 1944, 142: 391
- TOHA, J.:** *see* MIDDLETON, S.
- TOLERANCE**
test of vitamins, intravenous and oral, 1945, 144: 58
to arsenic trioxide in rat, 1945, 143: 635
to cold, diet and, 1946, 146: 73
to exercise, 1944, 142: 200
- TOLKSDORF, SIBYLLE:** *see* JENSEN, H.
- TOLPIN, M.:** *see* ROBBARD, S.
- TOLSEROL:** *see* MYANESIN
- TOLUENE**
interfacial tension between, and water, 1946, 145:
612
muscle sensitivity to acetylcholine and potassium,
1946, 145: 610
- p-TOLUENESULFONYLAMIDE**
renal electrolyte metabolism and, 1951, 167: 209
- TOLUOL:** *see* TOLUENE
- TOMAN, J. E. P. and OSTER, R. H.** Muscle potentials
in a single volitional twitch, 1942, 136: 743
- *See* HENDLEY, C. D.
— *See* OSTER, R. H.
— *See* SMITH, D. C.
- *See* SWINYARD, E. A.
- TOMPKINS, D.:** *see* ZUCKER, MARJORIE B.
- TORDA, CLARA and WOLFF, H. G.** Acetylcholine
metabolism, 1947, 151: 345
- and WOLFF, H. G. ACTH and neuromuscular
function, 1950, 161: 534
- and WOLFF, H. G. Action potential of nerve
and muscle, 1949, 158: 465
- and WOLFF, H. G. Adenosinetriphosphatase, 1948,
152: 86
- and WOLFF, H. G. Cyclic compounds and muscle
sensitivity, 1946, 145: 608
- and WOLFF, H. G. Lymphoid necrosis and
neuromuscular function, 1950, 163: 201
- and WOLFF, H. G. Organ extracts and acetyl-
choline synthesis, 1947, 148: 417
- and WOLFF, H. G. Pituitary and neuromuscular
function, 1949, 156: 274
- and WOLFF, H. G. Response of striated muscle
to acetylcholine and to K, 1946, 146: 567
- and WOLFF, H. G. Sensitivity of muscle to acetyl-
choline and potassium, 1946, 145: 419
- and WOLFF, H. G. Substances that decrease
acetylcholine synthesis, 1946, 147: 384
- TORPIN, R.:** *see* WOODBURY, R. A.
- TORQUES**
of muscles in running, 1940, 129: 676
- TORTOISE**
contraction and relaxation of ventricle, 1950, 162: 249
elastic properties of ventricle from, 1939, 125: 437
O₂ consumption of retina in, 1943, 139: 13
- TOSTESON, D. C., DEFRIEZ, A. I. C., ABRAMS, M.,
GOTSCHALK, C. W. and LANDIS, E. M.** Sodium
chloride intake of hypertensive rats, 1951, 164:
369
- *See* ABRAMS, M.
- TOTAL SOLIDS**
of blood, relation to growth, 1941, 132: 365
of liver during regeneration, 1949, 157: 137
- TOTH, L. A.** Anoxic oliguria and adrenal glands, 1940,
129: 532
- Epinephrine and glomerular and aglomerular
fish, 1939, 126: 347
- *See* BYER, E.
— *See* MAYERSON, H. S.
- TOUCH**
cerebral lesions and conditioned reflexes involving,
1946, 147: 545
- TOUCHSTONE, R. N.:** *see* GUYTON, A. C.
- TOURNIQUET**
muscle electrolyte distribution and, 1951, 166: 424
- TOURNIQUET SHOCK:** *see* SHOCK, TOURNIQUET
- TOURTELLOTTE, DEE:** *see* RHODE, C. M.
- TOWBIN, E. J.** Thirst in esophagostomized dogs, 1949,
159: 533
- TOWER, S. S.:** *see* BRONK, D. W.
- TOWNSEND, J. C.:** *see* RUSSELL, R. W.
- TOWNSEND, S. E.:** *see* GARREY, W. E.
- *See* KING, C. E.
- TOXICITY**
comparative, of cryolite fluorine and sodium fluoride,
1939, 126: 713

TOXICITY

of arsenic trioxide for rats, 1945, 143: 637

TOXINS

extracted from muscle, 1944, 141: 262

formation of in placenta, 1945, 146: 142

in traumatic shock, 1947, 149: 112

placental, activation by human serum, 1946, 146: 142

desensitization to, 1946, 147: 250

mice and, 1946, 147: 250

response to, in pregnancy, 1946, 147: 255

sensitivity during pregnancy, 1946, 147: 259

thromboplastin in, 1947, 149: 123

TRACH, B., CODE, C. F. and WANGENSTEEN, O. H.
Histamine in human gastric mucosa, 1944, 141: 78

TRACHEA

ciliary action in, 1951, 167: 108

mucosa, damage due to respiratory tract damage, 1944, 140: 467

negative pressure in, 1951, 167: 108

pressure in, and blood flow in bronchial artery, 1947, 148: 663

TRAGACANTH (GUM)

clotting time and, 1945, 144: 453

TRAINING

blood pressure in dogs, 1939, 128: 234

coronary and circulatory changes, 1939, 125: 621

energy cost of grade and horizontal walking, 1946, 145: 392

lactic acid mechanism and blood changes in, 1941, 132: 757

muscular work, 1941, 133: 163

of muscles, and blood supply, 1941, 132: 390

orthostatic insufficiency, 1945, 143: 17

physical fitness tests and, 1946, 146: 422

physiological status at rest and at work, and, 1942, 136: 148

respiratory and circulatory reaction to exercise, 1940, 129: 166

response to exercise, 1942, 137: 323

visual acuity and, 1946, 146: 573

work output, 1942, 136: 82

TRANSFUSION

adjustment of circulation after, 1951, 164: 351

adrenalectomized animal, 1941, 134: 508

blood flow, and vascular resistance after shock, 1946, 147: 693

blood pressure, and fluid shifts following, 1950, 163: 529

cell and plasma volume, 1945, 144: 199

cross, toxic factor in shock and, 1947, 149: 112

urine flow and blood pressure in, 1947, 151: 559

failure as therapy for hemorrhagic shock, 1945, 144: 91

heterogeneous, thermal reactions to, 1942, 137: 36

promptness of, and success in hemorrhagic shock, 1946, 147: 158

rapid, circulatory adjustments following, 1951, 164: 351

whole blood in treatment of hemorrhagic shock, 1945, 144: 223

TRANSMISSION (OF SUBSTANCE)

drugs through milk, 1945, 143: 239

shock producing factor in blood, 1945, 143: 442

TRANSMISSION (SYNAPTIC)

conduction measurements, 1941, 133: 576

fifth stage in autonomic ganglia, 1939, 127: 347

five stages of, 1939, 128: 31

in Wallerian degeneration, 1939, 128: 45

mechanism of, 1941, 132: 128

peripheral, strychnine and, 1939, 125: 177

resistance to asphyxiation, 1941, 133: 572

sympathetic, adrenergic inhibition at, 1939, 127: 738

through sympathetic ganglion, 1938, 122: 1

TRANSMISSION FATIGUE: *see* NEUROMUSCULAR TRANSMISSION, fatigue

TRANSPLANTATION

homeoplastic, of adrenals, 1938, 121: 650

of muscle, reflex, 1941, 132: 607

TRANSULFURASE

in conversion of cyanide to thiocyanate, 1950, 163: 404

TRAUBE-HERING WAVES

pressorceptor-autonomic reflex system, 1951, 165: 158

TRAUMA

acquired resistance to, 1945, 143: 405

cardiac output, 1947, 151: 34

cellular, gluconeogenesis, 1943, 138: 396

chemical composition of brain, 1941, 132: 770

development of resistance to, 1943, 138: 346

due to explosive decompression, 1949, 157: 88

iodide metabolism in, 1951, 167: 576

isotonic serum and saline infusion after, 1942, 137: 355

local fluid loss in, 1945, 144: 429

positive injury potentials of stomach, 1944, 140: 722

repair of peripheral nerve, 1943, 140: 107

resistance to G forces, 1949, 156: 137

thermal, vasopressor effect of, 1943, 139: 574

to muscle, blood phosphate, 1947, 149: 424

blood volume, 1947, 148: 104

water balance, 1939, 128: 226

TRAUMATIC SHOCK: *see* SHOCK, TRAUMATIC

TRAUTMAN, R.: *see* HUFF, R. L.

TRAUTMAN, W. V., JR.: *see* MAYERSON, H. S.

— *See* NIESER, R. T.

— *See* PARSON, W.

TRAVIS, D. M.: *see* CURTIS, H. J.

TRAVIS, DOROTHY F.: *see* SAWYER, W. H.

TREADMILL

blood, 1938, 121: 293

cardiovascular response to, training, 1946, 146: 425

TREAT, A. E. Plasma volume after cord transection, 1941, 134: 310

— *See* WIGGERS, H. C.

TRENCH FOOT

water loss from skin during, 1946, 146: 371

TRENON, J. F. and RYDER, H. W. Elements of blood, 1950, 162: 709

TREPPE

muscle action potentials, 1948, 154: 69

TRIPHENYL ETHYLENE

cholinergic effect of, 1939, 128: 149

- TRIACETIN**
permeability of erythrocytes to, 1951, 164: 424
- TRIBROMETHANOL:** *see* AVERTIN
- TRIBUTYRIN**
absorption of, 1942, 136: 712; 1943, 140: 44
- TRICAPROIN**
absorption of, 1943, 140: 44
- TRICAPRYLIN**
absorption of, 1943, 140: 44
- TRICHLOROMETHYL BIS(β -CHLOROETHYL)AMINE**
convulsant activity of, 1950, 160: 197
- TRICHROMAT**
dark adaptation for, 1946, 146: 693
- TRIDIONE:** *see* TRIMETHADIONE
- TRIETHANOLAMINE**
convulsant activity of, 1950, 160: 197
- TRIGEMINAL NERVES**
bulbar projection of, 1942, 137: 217
resection and water drinking, 1939, 126: 15
termination in thalamus, 1942, 137: 409
- TRIGONELLINE**
N-methylnicotinamide excretion, 1950, 160: 317
- TRIMBY, R. H. and NICHOLSON, H. C.** Respiratory waves in arterial blood pressure, 1940, 129: 289
— *See* NICHOLSON, H. C.
- TRIMETHADIONE**
acetylcholine metabolism, 1947, 151: 346
inhibition of brain cholinesterase, 1950, 160: 193
- 2,4,6-TRINITROPHENOL**
PAH accumulation in kidney slices, 1950, 161: 189
phenol red transport in fish tubules, 1950, 161: 169
renal electrolyte metabolism, 1951, 167: 208
respiration of fish kidney, 1950, 161: 171
- TRIPP, ELEANORE and OGDEN, E.** Pressor substances in plasma, 1948, 153: 336
— *See* OGDEN, E.
- TRIPP, F.:** *see* HOLMES, A. D.
- TRIS(β -CHLOROETHYL)AMINE**
convulsant activity of, 1950, 160: 197
- TRIS(CHLOROMETHYL)PHOSPHINE**
convulsant activity of, 1950, 160: 198
- TRITON**
intravenous administration of fat, 1951, 164: 490
- TRITURUS TOXIN**
action potential of frog nerve, 1947, 150: 326
- TROAST, L.:** *see* SHANNON, J. A.
- TROESCHER-ELAM, ELIZABETH, ANCONA, G. R. and KERR, W. J.** Histamine-like substance in nasal secretions, 1945, 144: 711
- TROWBRIDGE, CAROLYN and JORDAN, J. R.** Loss of K from muscle after adrenalectomy, 1947, 148: 222
- TRUAX, F. L.** Chloride space and extracellular space of liver, 1939, 126: 402
- TRUETA PHENOMENON**
vascular by-passes in kidney, 1950, 161: 250
- TRUHLAR, J.:** *see* CASPE, S.
- TRYBALSKE, EDITH:** *see* KOCHAKIAN, C. D.
- TRYPAN BLUE**
binding by plasma proteins, 1943, 138: 714
combination with plasma albumin, 1950, 161: 473
disappearance from blood stream, 1943, 138: 698
- TRYPSIN**
blood histamine, 1942, 135: 373
clotting of hemophilic plasma by, 1939, 126: 670
coagulant action of, 1939, 126: 662
diet, 1943, 138: 676; 1944, 141: 39
in chickens, 1948, 155: 33
release of bradykinin from blood by, 1949, 156: 261
stimulants, 1944, 141: 510
- TRYPTOPHANE**
blood sugar level, 1948, 153: 425; 1949, 158: 38
muscle sensitivity to acetylcholine and potassium, 1946, 145: 611
of body fluids during dietary restrictions in man, 1946, 147: 47
of urine, blood, and feces, on various diets, 1947, 148: 624
renal clearance of, 1946, 146: 332
response to epinephrine, 1943, 140: 372
sucrose feeding and urinary output, 1947, 150: 391
- TSAI, C., CHEN, C. J. and CHIU, K. Y.** Increased erythrocytic fragility by stasis, 1943, 138: 519
- TSCHIRGI, R. D. and GERARD, R. W.** Carotid-mandibular reflex in gasping, 1947, 150: 358
— *See* HJESTAND, W. A.
- TSH:** *see* THYROTROPIC HORMONE
- TTP:** *see* THIAMINE TRIPHOSPHORIC ACID
- TUBERCULOSIS**
cough and circulatory pressure in, 1944, 141: 47
- TUBOCURARINE**
acetylcholine synthesis, excitation, 1946, 147: 384
activity of adenosinetriphosphatase, 1948, 152: 90
muscle circulation, 1951, 164: 734
muscle response, 1951, 165: 716
neuromuscular excitation, 1950, 162: 475
tissue oxidation, 1947, 148: 507
- TUDDENHAM, W. J.:** *see* FOLTZ, E. L.
- TUFTS, ELMA V.:** *see* GREENBERG, D. M.
- TULIN, M., DANOWSKI, T. S., HALD, PAULINE M. and PETERS, J. P.** Movements of inorganic phosphate in human blood, 1947, 149: 678
— *See* HALD, PAULINE M.
— *See* PETERS, J. P.
- TULLIS, J. L.** Permeability of the leucocyte, 1947, 148: 708
— *See* BARROW, J.
— *See* BROWN, C. S.
- TUM SUDEN, CAROLINE.** Cardiovascular sensitivity to potassium in rat, 1947, 149: 589
— Opacities of the lens induced by adrenaline, 1940, 130: 543
—, WYMAN, L. C. and DEROW, M. A. Blood K, histamine intoxication and adrenal function, 1945, 144: 102
— *See* WYMAN, L. C.
- TUMORS**
cholinesterase of blood, tissue, 1948, 154: 497
- TUNTURI, A. R.** Acoustic area of cortex, 1950, 160: 395
— Afferent auditory cortex, 1950, 162: 489
— Afferent connections to acoustic cortex, 1945, 144: 389
— Audio frequency localization in acoustic cortex, 1944, 141: 397

- TUNTURI, A. R. Pathway from medial geniculate to acoustic cortex, 1946, 147: 311
- TURBULENCE
development in flowing blood, 1949, 159: 401
lung ventilation, 1941, 134: 459
- TURKEY
folic acid of blood, 1947, 148: 320
vitamin B of whole blood, 1950, 163: 79
- TURNBULL, G. L.: *see* AVIADO, D. M., JR.
- TURNER, C. W. and KEMPSTER, H. L. Hyperthyroidism and egg production of aging fowls, 1947, 149: 383
— *See* GRAHAM, W. R., JR.
— *See* HURST, V.
— *See* MEITES, J.
— *See* MONROE, R. A.
— *See* REINEKE, E. P.
- TURNER, ELEANOR: *see* BUELL, MARY V.
- TURNER, K. P.: *see* ALTSCHUL, R.
- TURNER, L. B. and GROLLMAN, A. Adrenal cortex and hypertension, 1951, 166: 185
— and GROLLMAN, A. Adrenals in hypertension, 1951, 167: 462
— *See* GROLLMAN, A.
- TURNER, MARGARET L. Hereditary obesity and temperature regulation, 1948, 152: 197
— *See* FUHRMAN, GERALDINE J.
— *See* TURNER, R. S.
- TURNER, R. S. and FUHRMAN, F. A. Action potential and triturus toxin, 1947, 150: 325
— and TURNER, MARGARET L. Chromatolysis and oxygen consumption of spinal cord, 1944, 141: 418
- TURPENTINE
abscess, distribution of intravenously injected iron, 1951, 165: 350
depressor action in hypertensive dog, 1950, 160: 22
insulin resistance produced by, 1942, 136: 598
- TURRELL, E. S. and ROBINSON, S. Acid-base equilibrium of blood in exercise, 1942, 137: 742
— *See* ROBINSON, S.
- TURTLE
hypothermia and magnesium of blood, 1950, 161: 399
liver, hemoglobin factors in, 1939, 126: 145
oxidation of carbon monoxide in, 1950, 162: 561
perfused liver from, 1938, 124: 648
plasma prothrombin in, 1939, 125: 297
prothrombin and ac-globulin in, 1948, 154: 136
role of CNS in temperature-pressure relationships, 1949, 158: 135
strychnine and superior cervical ganglion of, 1939, 125: 177
temperature stimulation of brain and blood pressure in, 1950, 160: 402
variations of pulmonary arterial pressure in, 1942, 137: 628
vitamin B of whole blood, 1950, 163: 79
- TURTLE HEART: *see* HEART, TURTLE
- TUTTLE TEST
insomnia, 1942, 138: 66
- TUTTLE, W. W.: *see* KEMP, C. R.
- TWITCH RESPONSE
quick stretch during, 1951, 164: 238
- See page iii for guide to use of index
- TYLER, D. B. Body position, medication and motion sickness, 1946, 146: 458
— Brain damage during insulin shock, 1941, 131: 554
— Naturally occurring inhibitors and lysins, 1951, 164: 467
— Prolonged wakefulness, 1947, 150: 253
— and VAN HARREVELD, A. Respiration of the developing brain, 1942, 136: 600
—, GOODMAN, J. and ROTHMAN, T. Experimental insomnia and the *eeg*, 1947, 149: 185
— *See* VAN HARREVELD, A.
- TYNDALE, H. H., LEVIN, L. and SMITH, P. E. Menopause urine injections after hypophysectomy, 1938, 124: 174
- TYPHOID H. ANTIGEN
insulin resistance produced by, 1942, 136: 598
- TYPHOID VACCINE
insulin resistance produced by, 1942, 136: 598
leucocyte count, 1948, 153: 150
- TYPHOID-PARATYPHOID VACCINE
environmental temperature in response to, 1949, 159: 511
use to produce experimental fever, 1949, 158: 16
- TYRAMINE
nerve-free smooth muscle of chick amnion, 1940, 131: 531
- TYREE, E. B.: *see* PATT, H. M.
- TYROSINE
blood pressure response to epinephrine, 1943, 140: 372
clotting time, 1945, 144: 453
competition with thyroxine, 1947, 151: 132
disappearance from blood, 1942, 136: 461
renal hypertension, 1950, 162: 370
- TYSLOWITZ, R. and ASTWOOD, E. B. Pituitary and adrenal cortex in resistance to cold, 1942, 136: 22
- ULCER, CURLING'S
blood histamine, 1946, 145: 487
- ULCERS
anti-substances in shay rat, 1947, 150: 755
experimental, peptic, antiproteolytic activity of serum in, 1950, 160: 348
thyroid activity, 1949, 157: 216
gastric, following experimental burns, 1946, 145: 487
ruminal, enterogastrone, 1947, 148: 384
- ULTRAVIOLET LIGHT
body weight, 1943, 138: 378
nucleic acid derivatives, 1951, 167: 364
- UMBILICAL ARTERIES
human, reaction to various drugs, 1951, 164: 86
- UMBILICAL CORD
blood flow in, 1951, 166: 27
significance of venous pressure in, 1951, 166: 35
- UNDERCOOLING: *see* HYPOTHERMIA
- UNDERWOOD, E. J.: *see* ANDERSON, H. D.
- UNDERWOOD, ELIZABETH, FISCH, S. and HODGE, H. C.
Vitamin D in calcium metabolism, 1951, 166: 387

- UNDERWOOD, N. and DIAZ, J. T. Gaseous exchange between blood vessels and lungs, 1941, 133: 88
- UNGAR, G., DAMGAARD, EVELYN and WEINSTEIN, H. G. Hormones and inflammation, 1951, 166: 340
- UNNA, K. and MUSHETT, C. W. Utilization of esters of pantothenic acid, 1942, 135: 267
- UOTILA, U. U.: *see* FRIEDGOOD, H. B.
- URACIL
acetylcholine synthesis, excitation, 1946, 147: 384
ultraviolet irradiation, 1951, 167: 368
- URANIUM
kidney function, 1943, 139: 155; 1948, 154: 220
- UREA
back-diffusion in kidney, 1943, 139: 504
blood coagulation, 1940, 128: 401
chloride excretion, 1950, 162: 668
denaturation of gonadotropin, 1948, 153: 21
distribution ratio in cerebrospinal fluid and plasma, 1938, 124: 131
diuresis and excretion of electrolytes, 1949, 158: 218
feeding with glycine and creatine-creatinine excretion, 1939, 127: 717
formation, methyl xanthines, 1946, 147: 428
nephrectomy, 1949, 158: 149
ultraviolet irradiation of nucleic acid derivatives, 1951, 167: 364
heart rate, 1940, 129: 294
injection of hypertonic solution, drinking response, 1950, 162: 333
intestinal obstruction, production and excretion of, 1947, 149: 496
isotopic, in frog mucosa, 1951, 165: 688
of blood, 1938, 123: 500
adrenalectomy, 1938, 122: 448
age, 1938, 123: 500
endocrine extracts, 1940, 128: 777
following hepatectomy, 1938, 121: 210
following hepatectomy and nephrectomy, 1938, 121: 211
in dogs, 1940, 128: 774
methyl xanthines, 1946, 147: 429
secretion of ammonia in small intestine, 1940, 129: 150
urea secretion, 1944, 141: 472
of blood and urine following hepatectomy, 1938, 121: 204
of blood serum of dog, 1940, 129: 746
of exudates, diabetes, 1941, 134: 527
of renal lymph, 1942, 138: 110
of serum, adrenalectomy, 1938, 123: 703; 1938, 123: 708
tetrathionate injections, 1946, 147: 120
pituitrin secretion, 1945, 144: 315
plasma and urine concentrations of, 1949, 157: 359
production, diuresis, 1948, 153: 190
retention of, 1943, 138: 191
sodium chloride and, in work in dry heat, 1943, 140: 446
source of ammonium ion in gastric juice, 1951, 165: 695
synthesis, by liver in hemorrhagic shock, 1945, 144: 677
during hemorrhagic shock in nephrectomized rats, 1946, 147: 165
tubular reabsorption of, 1941, 135: 113
urine volume after injection, 1939, 127: 542
utilization by cattle and sheep, 1948, 153: 41
- UREA, EXCRETION
after posterior pituitary extract, 1940, 128: 748
caffeine, 1945, 145: 115
clearance, 1939, 125: 640, 1948, 152: 31
age, 1938, 123: 502
in diabetes insipidus, 1938, 122: 288
urine flow and 1946, 145: 639
vitamin A, 1939, 125: 789
following dehydration, 1949, 156: 435
forced diuresis, 1938, 122: 782
ideal osmotic work of, 1949, 157: 359
methyl xanthines, 1946, 147: 429
osmotic diuresis, 1949, 157: 364
under basal conditions, 1944, 141: 469
- UREASE
role of, 1950, 163: 386
role in gastric mucosa, 1951, 165: 688; 1951, 165: 695
- URECHOLINE
duodenal secretion, 1949, 158: 126
pepsin of gastric juice, 1950, 163: 31
- UREMIA
duration of renal ischemia required to produce, 1948, 152: 517
experimental, antagonism of desoxycorticosterone, 1941, 134: 71
following burns, 1947, 148: 368
intestinal perfusion in, 1951, 166: 137
- URETER
action potentials from, 1938, 124: 508
adrenotropic receptors in, 1948, 153: 590
unilateral ligation of, pressor substances, 1941, 132: 1
- URETHANE ANESTHESIA
as anticonvulsant in oxygen poisoning, 1945, 144: 276
cardiovascular factors, 1949, 159: 383
carotid occlusion, arterial pressure, 1950, 162: 554
histamine release in anaphylaxis, 1940, 129: 739
respiratory response to vagal stimulation, 1947, 149: 41
thresholds of stimulation in brain stem, 1938, 121: 715
uterine respiration, 1940, 128: 658
- URIC ACID
acetylcholine synthesis, stimulation, 1946, 147: 384
clearance, sodium salicylate, 1948, 154: 167
urine flow, 1946, 145: 639
excretion after ACTH, 1950, 163: 684
blood lactic acid, 1944, 141: 72
hippuric acid synthesis, 1944, 140: 548
insulin, adrenaline, 1938, 123: 625
insulin, adrenaline, 1938, 123: 625
-like chromogen, in chickens, 1947, 151: 188
of blood following hepatectomy, 1938, 121: 210
following hepatectomy and nephrectomy, 1938, 121: 211; 1947, 150: 678
of blood and urine following hepatectomy, 1938, 121: 204

URIC ACID

- of body fluids during dietary restrictions in man, 1946, 147: 47
- of plasma of azotemic chickens, 1947, 151: 186
- of urine, sodium benzoate, 1944, 140: 553
- rate of entrance into CSF, 1949, 157: 394
- salicylate and excretion, 1948, 152: 302
- ultraviolet irradiation, 1951, 167: 368

URINATION

- excretion of ascorbic acid at each, 1940, 128: 584
- mechanics of, 1939, 128: 195

URINE

- acidification of, 1945, 144: 239
- acidity, buffer equilibria and reabsorption in production of, 1948, 154: 174
- appearance time, significance of, 1950, 163: 454
- changes during diuresis and dehydration, 1944, 142: 444
- chicken, chemical composition of, 1942, 136: 665
- composition; water diuresis, exercise, 1947, 148: 333
- concentration in adrenalectomized dogs, 1942, 136: 232
- dilution in adrenalectomized dogs, 1942, 136: 231
- exchange rate of isotopes calculated from isotopes in, 1951, 164: 159
- formation in frog, 1951, 164: 457
- in menopause, injections, after hypophysectomy, 1938, 124: 174
- secretion in chicken, 1940, 128: 592
- separation of, from water bathing gills of fish, 1951, 165: 581
- titratable acid in, 1946, 147: 481

URINE, CONSTITUENTS OF: *see* under name of constituent

URINE, OUTPUT

- after subcutaneous injections, 1939, 127: 541
- altitude, 1943, 140: 388
- anoxia, adrenalectomy, 1940, 129: 533
- anesthesia, 1946, 147: 616
- clearance of various substances, 1946, 145: 639
- diet, 1943, 139: 704
- environmental conditions 1940, 129: 95
- epinephrine in fish, 1939, 126: 351
- exposure, posture, 1946, 146: 528
- glucose and fructose ingestion, 1938, 124: 79
- hydropenia, 1950, 163: 159
- hypertonic plasma, 1944, 140: 595
- in experimental obesity in the dog, 1944, 141: 552
- in ischemic shock, 1947, 151: 554
- injected 5 per cent glucose, 1944, 140: 592
- injected saline, 1944, 140: 591
- injection of hypertonic glucose, 1944, 140: 593
- normal plasma, 1944, 140: 594
- pituitary extract, 1941, 131: 603
- renal blood flow and renal artery pressure, 1951, 167: 676
- sodium chloride and in work in dry heat, 1943, 140: 444
- sodium chloride deficiency, 1951, 164: 690
- thiouracil, thyroidectomy, 1946, 146: 440
- various air temperatures, 1946, 146: 525

UROGASTRONE

- anti-ulcer activity of, 1947, 150: 756
- enterogastrone, 1941, 134: 628
- extirpation of various endocrine glands, 1947, 150: 373
- factors affecting excretion, 1941, 134: 623
- gastric motility, 1947, 148: 340
- gastric secretion, 1942, 137: 419
- of urine, 1940, 129: 589
- separation from pyrogen of urine, 1940, 129: 589

UROPANCREATONE

- of urine, 1941, 134: 245

UROPEPSIN

- excretion after caffeine and histamine, 1948, 153: 454
- of urine after gastrectomy, 1947, 150: 416

UTERUS

- accommodation during pregnancy, 1947, 148: 77
- acetylcholine-equivalent in, 1939, 127: 343
- action potentials from, 1938, 124: 504
- actomyosin of, 1950, 160: 46
- adrenotropic receptors in, 1948, 153: 590
- ascorbic acid and glutathione, 1940, 128: 655
- assay of gonadotropins, 1938, 121: 364
- atropine and response to nerve stimulation, 1943, 139: 178
- bleeding due to hormone deprivation, 1938, 124: 1
- cervical mucus, penetration by spermatozoa, 1940, 129: 234
- cervix, electrical stimulation of and sexual development, 1951, 167: 599
- chemical composition of secretion, 1940, 130: 287
- circulation time, as measured by cyanide, 1947, 148: 81
- estradiol distribution after injection, 1951, 165: 672
- fluid in, 1938, 122: 602
- motility, cycle of, 1939, 125: 549
- estrogens, 1950, 162: 406
- salts, 1938, 123: 752
- muscle, adrenaline, nerve stimulation, 1940, 128: 372
- nicotine, 1942, 137: 456
- post-partum, histamine-like substance in, 1940, 130: 319
- pressure in during labor, 1938, 121: 640
- respiration of, 1940, 128: 657; 1941, 131: 584
- sensitivity of endometrium, 1938, 122: 624
- sympathetic response of, 1940, 130: 627
- weight, amniotin, progesterone, 1940, 129: 547
- antigonadotropic serum, 1942, 136: 296
- diet, 1941, 131: 646
- water content, 1939, 126: 164

V-12

- adaptation to motion sickness, 1948, 154: 444

VAGAL REFLEXES

- respiration, 1940, 130: 675
- stretch, dual excitatory action of, 1941, 131: 674

VAGINA

- electrical potential, as related to oestrous cycle, 1938, 121: 567

- between, and symphysis pubis, 1938, 121: 567
in normal, castrated, and theelin-treated rats,
1938, 121: 565
- VAGO-INSULIN SYSTEM**
excitability, magnesium deficiency, 1941, 134: 603
in anoxia and convulsions, 1940, 131: 281
temperature, 1941, 133: 670
- VAGOTOMY**
adrenaline-sensitivity of intestinal muscle, 1942,
137: 87
blood gas concentration, 1940, 130: 679
cardiac response to intra-abdominal pressure, 1947,
149: 297
cardio-acceleration from acetylcholine hypotension,
1945, 144: 515
cardiospasm, 1945, 143: 164
chest volume during anoxia, 1945, 143: 145
CNS, temperature-pressure relations, 1949, 158: 136
crossed phrenic phenomenon, 1941, 134: 105
drinking induced by hypertonic solutions, 1950,
162: 333
eating habit in hypothalamic obesity, 1946, 147: 735
emesis resulting from, 1947, 149: 429
epinephrine shock, bradycardia, 1945, 143: 135
insulin and, food intake, 1947, 149: 100
intestinal motility, 1942, 135: 623
mechanism of carotid sinus reflex, 1947, 150: 712
pancreatic secretion, 1944, 141: 733
paroxysmal tachycardia, 1948, 153: 553
pulmonary edema, 1949, 157: 130
pulmonary edema following, 1948, 152: 585
serum protein, calcium, 1940, 129: 762
survival following explosive decompression, 1950,
162: 455
thyroidectomy and, calcium stores, 1940, 129: 769
- VAGUS NERVES**
adrenergic mechanism of heart stimulation, 1949,
158: 31
bile secretion, 1938, 121: 270
block, buoyancy of body, 1942, 137: 138
expiratory activity, 1942, 136: 490
cardiac, barbiturates, 1940, 129: 15
cardio-accelerator fibers in, 1939, 128: 247; 1945,
144: 513
carotid body activity, 1938, 121: 14
carotid sinus reflex, 1947, 150: 722
cholinesterase of, 1945, 144: 82
crossed phrenic phenomenon, 1948, 154: 417
electrocardiogram, 1951, 167: 441
electroneurogram, of normal, 1950, 162: 546
inhibition of, accommodation of heart during, 1939,
127: 333
inhibition of gastric motility, 1947, 148: 338
mechanism of carotid sinus reflex, 1947, 150: 712
panting in mammals and birds, 1942, 138: 12
pulmonary ventilation, 1941, 132: 571
pulmonary volume receptors, 1946, 147: 101
reflex stimulation and ECG, 1951, 167: 441
regulation of heart rate, 1941, 132: 5
respiration, 1951, 166: 255
responses to intestinal distention, 1945, 144: 723
spike potentials and cardiac effects, 1950, 162: 545
stimulation, aortic, portal, and inferior vena caval
pressures, 1946, 146: 199
circulation, 1946, 146: 414
coronary blood flow, 1939, 126: 397; 1947, 148: 588
electrical potential of gastric mucosa, 1947, 149:
88
ineffectiveness on ventricular fibrillation, 1941,
133: 634
motility of colon, 1942, 138: 88
respiration, 1947, 149: 24
serum potassium, 1944, 142: 628
sympathomimetic amines in, 1947, 148: 461
- VAIL, VIRGINIA C.:** *see* HUGGINS, C.
- VAIL, VIRGINIA N. and KOCHAKIAN, C. D.** Adrenal
cortex extract and liver and kidney, 1947, 150:
580
- VALINE**
renal clearance of, 1946, 146: 334
renal reabsorption of, 1946, 145: 493
- VALSALVA TEST**
arterial pressure response to, 1948, 154: 316
in dogs with interatrial septal defects, 1950, 162: 515
- VAN ARMAN, C. G.** Epinephrine in adrenal glands, 1950,
162: 411
- Precursors of epinephrine, 1951, 164: 476
- VAN DE ERVE, J.:** *see* BRUNER, H. D.
- VAN DOLAH, J. E.:** *see* WINTER, I. C.
- VAN DYKE, D. C. and HUFF, R. L.** Life span of white
blood cells in rats, 1951, 165: 341
- , SIMPSON, MIRIAM E., LI, C. H. and EVANS, H. M.
Hormones and parabiosis, 1950, 163: 297
- *See* HUFF, R. L.
- VAN HARREVELD, A.** Asphyxia and reflex inhibition,
1939, 128: 13
- Asphyxial depolarisation in spinal cord, 1946,
147: 669
- Asphyxiation of spinal cord and pain sensibility,
1940, 131: 1
- Force and size of motor units in rabbit sartorius,
1947, 151: 96
- Muscle reflexes after cord asphyxiation, 1944,
142: 428
- Narcotics and nervous structures, 1947, 150: 541
- Re-innervation of denervated muscle fibers, 1945,
144: 477
- Resistance of synaptic conduction to asphyxiation,
1941, 133: 572
- Spinal shock, 1940, 129: 515
- Spontaneous re-innervation in paretic muscles,
1947, 150: 670
- Survival of reflex activity during cord asphyxia-
tion, 1944, 141: 97
- Tone and tendon reflexes after cord asphyxiation,
1943, 139: 617
- and FEIGEN, G. A. Polarization of spinal cord
elements, 1950, 160: 451
- and TYLER, D. B. Metabolism of asphyxiated
spinal cord, 1942, 138: 140
- and TYLER, D. B. Temperature and asphyxial
spinal cord damage, 1944, 142: 32
- , FEIGEN, G. A. and LERMAN, L. S. Hemodynamics
of aortic occlusion, 1949, 157: 168

- VAN HARREVELD, A., FOSTER, R. J. and FASMAN, G. Diphenyl hydantoin and narcosis, 1951, 166: 718
- , PLESSET, M. S. and WIERSMA, C. A. G. Electric currents and their electronarcotic action, 1942, 137: 39
- , TYLER, D. B. and WIERSMA, C. A. G. Brain metabolism during electronarcosis, 1943, 139: 171
- See TYLER, D. B.
- VAN LIEBE, E. J. and NORTHUP, D. W. Gastric emptying time of old people, 1941, 134: 719
- and SLEETH, C. K. Cardiac hypertrophy during pregnancy, 1938, 122: 34
- and VAUGHAN, P. E. Anoxia and absorption of salts in small intestine, 1940, 129: 618
- , NORTHUP, D. W. and SLEETH, C. K. Acute hemorrhage and intestinal absorption, 1938, 124: 102
- , NORTHUP, D. W. and STICKNEY, J. C. Anemic anoxia and intestinal motility, 1944, 142: 260
- , NORTHUP, D. W. and STICKNEY, J. C. Autonomic nervous system and intestinal motility, 1944, 141: 462
- , NORTHUP, D. W. and STICKNEY, J. C. Effect of cocaine and anoxia on intestinal activity, 1944, 142: 615
- , NORTHUP, D. W., STICKNEY, J. C. and EMERSON, G. A. Effect of anoxia on intestinal peristalsis, 1943, 140: 119
- , STICKNEY, J. C. and NORTHUP, D. W. Absorption of chloride from small intestine, 1947, 150: 149
- , STICKNEY, J. C. and NORTHUP, D. W. Blood sugar response to anoxia, 1948, 155: 10
- , STICKNEY, J. C. and NORTHUP, D. W. Studies in anoxia, 1951, 167: 103
- See LAWLESS, J. J.
- See NORTHUP, D. W.
- See PICKETT, A. D.
- See STICKNEY, J. C.
- VAN LOO, A. and HERINGMAN, E. C. Arteriovenous fistula, 1949, 158: 103
- , SURTSHIN, A. and KATZ, L. N. Pressor responses to hypoxemia, 1948, 154: 397
- See LENEL, R.
- VAN LOON, E. J.: see CLARK, B. B.
- VAN MIDDLESWORTH, L. Glucose ingestion during severe anoxia, 1946, 146: 491
- Pulse rate responses to acceleration, 1948, 152: 157
- and BERRY, M. M. Iodide metabolism in stress, 1951, 167: 576
- and KLINE, R. F. Protection by CO₂ against acceleratory forces, 1948, 152: 22
- , KLINE, R. F. and BRITTON, S. W. Carbohydrate regulation under severe anoxia, 1944, 140: 474
- VAN NOATE, H. F.: see OPDYKE, D. F.
- VAN PROHASKA, J.: see JULIAN, O. C.
- VAN SLYKE, D. D.
- See DOLE, V. P.
- See PHILLIPS, R. A.
- VAN VOORHIS, S.: see ARIEL, I.
- VAN WAGENEN, W. P.: see BELLOW, R. T.
- VANADIUM
possible biological role of, 1942, 136: 772
- VANATTA, J., MUIRHEAD, E. E. and GROLLMAN, A. Artificial kidney, 1949, 156: 443
- See GROLLMAN, A.
- VANDAM, L.: see GRAY, F. D., JR.
- VANDEMARK, N. L. and MOELLER, A. N. Sperm transport in the cow, 1951, 165: 674
- See SALISBURY, G. W.
- VANREMOORTERE, E. Effect of isotonic glucose on frog muscle, 1948, 154: 455
- VAPOR TENSION
cutaneous insensible perspiration, 1942, 137: 499
- VARCO, R. H.: see VISSCHER, M. B.
- VARCO, R. L.: see CODE, C. F.
- VARS, H. M. and GURD, F. N. Dietary protein and liver regeneration, 1947, 151: 399
- and GURD, F. N. Nitrogen metabolism during liver regeneration, 1947, 151: 391
- See CAJORI, F. A.
- See FERGUSON, C. C.
- See FRIEDGOOD, C. E.
- See GURD, F. N.
- See RHODE, C. M.
- See ROGERS, C. S.
- VASCULAR PERIPHERAL RESISTANCE: see PERIPHERAL RESISTANCE (VASCULAR)
- VASCULAR RESISTANCE
femoral, epinephrine hypertension, 1949, 159: 471
- in hemorrhagic shock, 1946, 147: 685
- to renal blood flow at various blood pressures, 1946, 147: 537
- VASCULAR TONE
blood flow peripheral resistance and cutaneous temperature, 1944, 141: 518
- sympathectomy, 1941, 135: 43
- VASCULARITY
physiological affect of, 1947, 150: 477
- VASOCONSTRICTION
after denervation, 1948, 155: 165
- from deep inspiration, 1939, 125: 310
- hemorrhage, 1950, 161: 116
- hemorrhagic shock, 1948, 153: 511
- in spontaneous hemostasis, 1947, 148: 279
- ischemic excitation of carotid body, 1938, 124: 238
- oxyhemoglobin reduction time, 1946, 147: 632
- traumatic shock, 1950, 161: 125
- vasodilatation, 1942, 137: 695
- VASOCONSTRICTOR SUBSTANCES
in blood after shock, 1943, 139: 386
- in shed blood, 1941, 133: 21
- shed blood as, 1943, 139: 26
- VASODEPRESSOR ACTIVITY
from human urine, 1948, 155: 345
- morphine and, after hemorrhage, 1949, 157: 259
- tissue injury, 1950, 160: 22
- VASODEPRESSOR SUBSTANCES
antagonism of flavonoids to, 1951, 164: 391
- correlation with fatal outcome of shock, 1947, 150: 250

VASODILATATION

- antidromic, production of acetylcholine in, 1946, 145: 478
- food ingestion, 1948, 152: 183
- oxyhemoglobin reduction time, 1946, 147: 632
- vasoconstriction, 1942, 137: 695

VASOMOTOR ACTIVITY

- a quantitative expression for change of, 1944, 141: 533
- quantitative criteria for, 1940, 130: 63
- sweat gland activity, 1940, 129: 567

VASOMOTOR CENTERS

- excitability in hypoglycemia, 1940, 130: 256
- response to hypoxia after denervation, 1951, 166: 45

VASOMOTOR REACTIONS

- from carotid body, 1945, 143: 220
- reversal of, 1942, 135: 338

VASOMOTOR REFLEXES

- aortic chemoreceptors, 1939, 127: 180
- lycopodium spores, 1951, 164: 380
- nerve impulse frequency, 1939, 125: 119
- variations in carotid body temperature, 1939, 127: 94

VASOMOTOR SYSTEM

- chemo-reflex control by carotid body, 1938, 121: 1
- mechanism, in muscle, 1942, 137: 187
- protamine sulfate, 1951, 167: 1
- vascular reactions of finger to cold, 1942, 136: 669
- waves, cord, pressoreceptor-autonomic oscillation, 1951, 165: 158

VASOMOTOR WAVES: *see* TRAUBE-HERING WAVES

VASOPRESSOR ACTIVITY

- adrenalectomy, 1941, 132: 622
- arterial hypertension, 1950, 160: 409
- DCA and, fluid intake, 1948, 155: 290
- denervation, blood pressure regulatory mechanisms, 1951, 164: 360
- 1-dopa, 1945, 143: 122
- experimental renal hypertension, 1943, 139: 293
- from cortex of kidney, 1938, 124: 285
- from hypothalamus, 1939, 127: 597
- hydroxytyramine as, 1941, 132: 497
- in various species, 1948, 153: 341
- of acetylcholine, 1940, 130: 346
- of blood, 1947, 149: 708
- of carotid sinus, 1940, 130: 186
- of drugs, after carotid sinus removal, 1940, 130: 350
- of ischemic kidney blood, 1941, 131: 799
- of plasma, 1948, 153: 336
- production and blood flow, 1941, 132: 497
- production of by extracts of renal cortex, anoxia, 1941, 132: 497
- recovery of, after injection of kidney extract, 1947, 150: 355
- regulatory effect on blood pressure, 1943, 138: 391
- skin temperature of rabbits, 1941, 131: 710
- sustained, in various species, 1948, 153: 341
- thermal trauma, 1943, 139: 574
- time factor in production of, 1941, 132: 1
- venous, human plasma, 1944, 141: 102

VASOTROPIC SUBSTANCES

- in animals in shock, 1947, 150: 239

VAUGHAN, P. E.: *see* VAN LIERE, E. J.

VDM: *see* HEPATIC VASODEPRESSOR

VEINS

- amyl nitrite and tone, 1940, 130: 183
- cholinesterase activity and acetylcholine of, 1941, 132: 588
- obstruction; salt clearance, 1951, 164: 143
- occlusion, arterial flow, 1948, 153: 155
- heart size in shock produced by, 1945, 143: 80
- of the heart, 1947, 151: 13

VEINS, ADIPOSE: *see* ADIPOSE VEINSVELLIZ, L.: *see* PLOTKA, C.

VEM

- mechanism in traumatic shock, 1951, 164: 91
- production in shock, 1947, 150: 245

VENOM

- snake, action of, 1941, 134: 202
- blood histamine, 1941, 132: 552; 1942, 135: 374
- erythrocytes in vitro, 1949, 158: 77
- heart, 1940, 130: 615
- muscle-nerve preparation, 1950, 163: 209
- neurotoxic effects of, 1941, 134: 202
- release of, from blood by bradykinin, 1949, 156: 261
- shock effects of, 1941, 134: 202
- toxicity of, 1950, 161: 561
- viper, heparin action, 1947, 151: 58

VENOPRESSOR MECHANISM: *see* VASOPRESSOR ACTIVITY, venous

VENOUS BLOOD

- comparison with arterial blood for measurement of Tm_G , 1951, 165: 407
- potassium rise due to epinephrine, compared with arterial, 1939, 126: 711

VENOUS PRESSURE

- anesthesia, 1939, 128: 241
- arteriovenous fistula, 1951, 167: 426
- cardiac veins, occlusion of coronary veins, 1939, 128: 180
- collapse factor in measurement of, 1941, 134: 292
- cough, strain, 1944, 141: 45
- distal to constricting cuff, 1946, 147: 262
- during acute anoxia, 1943, 138: 593
- effective, calculation of, 1947, 151: 1
- regional intrathoracic pressure, 1947, 151: 1
- estimation in liver, 1951, 165: 527
- exercise, 1938, 121: 574
- failure of isolated heart preparation, 1945, 143: 507
- heart rate, 1941, 135: 207
- hemorrhage, infusion, 1942, 136: 415
- hemorrhagic shock, 1942, 136: 425
- histamine subcutaneously, 1944, 142: 161
- horizontal resting position, 1939, 128: 260
- in the isolated heart, 1945, 143: 471; 1945, 143: 495
- intra-abdominal pressure, 1947, 149: 293
- intra-thoracic pressure, 1943, 139: 208; 1944, 142: 594
- intramuscular pressure, 1943, 139: 161
- intrapulmonary pressure, 1946, 146: 309
- irreversible hemorrhagic shock, 1945, 144: 91
- kidney function, 1949, 157: 1; 1949, 157: 40
- limb weight, 1948, 152: 477
- measurement of, 1940, 130: 636
- phosgene gassing, 1946, 147: 329

VENOUS PRESSURE

- posture, syncope, 1939, 128: 264
- semi-starvation and rehabilitation, 1947, 150: 160
- sodium excretion, 1950, 162: 649

VENOUS RESISTANCE

- capillary pressure, 1947, 149: 394

VENOUS RETURN

- action of cardiac ejection on, 1946, 145: 528
- in absence of cardiac drive, 1946, 145: 443
- various substances, 1946, 145: 443

VENTRICULIN

- experimental hyperchromic anemia, 1944, 142: 403

VERATRIDINE

- inhibition of respiration and circulation, 1951, 165: 273

VERATRINE

- action potential and myograms of gastrocnemius, 1947, 150: 456
- activity of adenosinetriphosphatase, 1948, 152: 90
- denervated muscles, 1949, 158: 142
- electric responses of smooth muscle, 1942, 137: 270
- nerve, 1941, 133: 736
- recruitment of mammalian nerve fiber after, 1944, 141: 196
- superior cervical ganglion, 1942, 136: 699

VERMEULEN, C., OWENS, F. M., JR. and DRAGSTEDT, L. R. Pancreatectomy and fat absorption from intestines, 1943, 138: 792

— See ALLEN, J. G.

— See DRAGSTEDT, L. R.

— See GOODPASTURE, W. C.

— See JULIAN, O. C.

VERWEY, W. F.: see BEYER, K. H.

VERZÁR, F.

— See PEYSER, E.

— See SASS-KORTSÁK, A.

— See WANG, F. C.

VESICAL TRIGONE

- sexual activity, 1939, 128: 198
- urination, 1939, 128: 197

VESTIBULAR FUNCTION

- systematic restoration of, following section of VIII nerve, 1945, 144: 735

VESTIBULAR NERVES

- regeneration of, 1945, 144: 735

VESTIBULAR REFLEXES

- restoration of, following section of VIII nerve, 1945, 144: 735

VESTIBULAR-OCULAR REFLEX: see NYSTAGMUS

VIBRATION

- period for human body, 1939, 127: 5

VICTOR, J. and ANDERSEN, DOROTHY H. Hormone factors in tissue metabolism, 1938, 122: 167; 1938, 122: 296

— See ANDERSEN, DOROTHY H.

— See PATEK, A. J., JR.

VIGRAN, I. M. and ESSEX, H. E. Shock and epinephrine, 1950, 162: 230

VIOLANTE, A.: see KEYS, A.

VIRTUE, R. W., DOSTER-VIRTUE, MILDRED E., SMITH, DOROTHY I. and GREENBLATT, J. Bile and

jejunal absorption of sodium oleate, 1942, 135: 776

VISCERA

- regulation of body temperature, 1942, 137: 30
- utilization of glucose and lactate after hemorrhagic shock, 1945, 144: 233

VISCOSITY

- blood flow, 1940, 130: 108

VISION

- anoxia, after-image, 1943, 140: 360
- glucose, 1945, 144: 378
- binocular and monocular in dark adaptation, 1945, 143: 8
- brightness and form perception, 1948, 155: 409
- electrically produced phosphenes, 1938, 122: 57
- far, sympathetic action in accommodation, 1940, 128: 588
- in hypoglycemia, 1945, 145: 299
- intensity discrimination during insulin hypoglycemia, 1945, 145: 301

VISSCHER, F. E.

— See CRAIG, F. N.

— See HOUCK, C. R.

VISSCHER, M. B. and CARR, C. W. Rate of entrance of sodium into aqueous humor and C.S.F., 1944, 142: 27

— and ROEPKE, R. R. Solution concentrations in intestinal absorption, 1945, 144: 468

—, FETCHER, E. S., JR., CARR, C. W., GREGOR, H. P., BUSHEY, MARIAN S. and BARKER, DOROTHY E. Movement of water and ions between intestine and blood, 1944, 142: 550

—, ROEPKE, R. R. and LIFSON, N. Absorption of autogenous serum from ileal segments, 1945, 144: 457

—, VARCO, R. H., CARR, C. W., DEAN, R. B. and ERICKSON, DOROTHY M. Sodium movement between intestinal lumen and blood, 1944, 141: 488

— See BALL, ZELDA B.

— See BARNES, R. H.

— See CAMPBELL, G. S.

— See CASAS, CARMEN B.

— See DEAN, R. B.

— See DENNIS, C.

— See HADDY, F. J.

— See INGRAHAM, R. C.

— See JOHNSON, J. A.

— See KABAT, H.

— See KOTKE, F. J.

— See LEE, Y. C. P.

— See MARTINEZ, C.

— See MOE, G. K.

— See SHELLEY, W. B.

— See SUSSMAN, A. H.

— See WU, H. C.

VISSCHER, P. H.: see POST, R. S.

VISUAL ACCOMODATION: see ACCOMODATION, visual

VISUAL ACUITY

- day and night performance, 1946, 146: 573
- peripheral, 1943, 140: 83; 1947, 151: 319
- during dark adaptation, 1946, 146: 624

- under scotopic conditions, 1946, 146: 22
- scores on, factors affecting, 1946, 146: 573
- VISUAL PATHWAY**
 - failure during anoxia, 1950, 161: 573
- VISUAL PURPLE**
 - adsorption spectra of, 1938, 121: 215
- VISUAL RED**
 - chemical properties of, 1946, 145: 561
- VISUAL SENSATION**
 - produced by magnetic fields, 1947, 148: 374
- VISUAL THRESHOLDS**
 - absolute, optic cortex, 1942, 136: 463
 - as a measure of physiological imbalance, 1944, 142: 347
 - corrective effect of glucose on anoxia, 1945, 144: 378
 - formula for, 1938, 121: 454
 - methods of measuring, 1944, 142: 330
- VITAL CAPACITY**
 - immersion, 1944, 141: 51
 - posture, 1948, 152: 1950, 161: 352
 - venous return, 1939, 127: 793
- VITAL RED**
 - arterio-venous distribution of, 1950, 161: 221
 - ethanol precipitation of plasma, 1950, 161: 212
 - removal from lung, 1938, 123: 600
- VITAMIN A**
 - ability of dog to utilize, 1938, 124: 168
 - anterior pituitary, 1948, 152: 263
 - basal metabolism, 1947, 149: 402
 - blood pressure, 1943, 140: 226
 - color vision tests, 1944, 140: 578
 - intake at army training centers, 1945, 144: 590
 - large doses and visual threshold, 1940, 130: 661
 - mode of administration and utilization, 1942, 137: 215
 - night-blindness, 1938, 123: 734
 - of retina, 1941, 134: 114
 - previous depletion and reproductive performance, 1939, 125: 337
 - renal function, 1943, 140: 244
 - reserves in liver, 1945, 143: 450
 - of fur-bearing animals, 1938, 123: 693
 - stores, mobilization by sympathico-adrenal system, 1940, 131: 210
 - thyroid gland, 1948, 152: 263
- VITAMIN A, DEFICIENCY**
 - blood picture, 1938, 122: 589; 1939, 126: 254
 - cerebrospinal fluid pressure, 1940, 130: 684; 1941, 134: 436
 - dark adaptation, 1940, 130: 653
 - inulin and urea clearance, 1939, 125: 790
 - iodide metabolism in, 1951, 167: 576
 - muscular exercise, 1942, 137: 551
- VITAMIN B₆: see FOLIC ACID**
- VITAMIN B₁: see THIAMIN**
- VITAMIN B₂: see RIBOFLAVIN**
- VITAMIN B₃: see PYRIDOXINE**
- VITAMIN B₁₂**
 - deficiency, hematologic changes in, 1950, 162: 714
 - reproduction, 1951, 165: 79
 - of blood, 1950, 163: 77
- VITAMIN B-COMPLEX**
 - appetite, 1941, 131: 639
 - coprophagy as source of, 1945, 143: 347
 - deficiency, appetite, 1939, 127: 199
 - as non-specific stress, 1950, 161: 515
 - extractability of myosin, from muscle, 1947, 149: 178
 - in sedentary men, 1942, 137: 731
 - response of respiratory enzymes to thyroid, 1950, 161: 29
 - water content of organs, 1944, 141: 85
 - feeding with alpha-estradiol, 1946, 145: 467
 - heart rate in rat, 1940, 128: 609
 - hyperthyroid rats, 1938, 124: 683
 - requirement with advancing age, 1948, 153: 31
 - restricted intake of, 1945, 144: 5
 - work output of perfused muscle, 1944, 142: 269
- VITAMIN C: see ASCORBIC ACID**
- VITAMIN E: see TOCOPHEROLS**
- VITAMIN E, DEFICIENCY**
 - blood pressure, 1945, 143: 216
 - chronic, 1947, 148: 344
 - EKG, 1946, 147: 477
 - heart, 1944, 141: 242
 - oxygen consumption of muscle in, 1941, 131: 595; 1943, 138: 328
 - reproductive behavior, in mouse, 1940, 131: 263
 - thiamin and muscular dystrophy, 1941, 132: 211
 - utilization of intravenously injected iron in, 1951, 165: 352
- VITAMIN K**
 - absorption, and pancreatic achylia, 1941, 135: 137
 - through the lymph, 1949, 158: 312
 - acetylcholine synthesis and stimulation, 1946, 147: 384
 - administered in pregnancy, prothrombin activity of newborn, 1951, 165: 189
 - bleeding in bile fistula and jaundiced rats, 1939, 125: 423
 - deficiency, prothrombin level, 1939, 125: 429
 - requirement of rat, 1939, 125: 429
 - salicylic acid effect on prothrombin, 1949, 159: 44
 - survival and prothrombin times of eviscerated rats, 1950, 161: 199
 - synthesis of prothrombin, 1951, 164: 716
 - thrombin and enzymatic inactivation of, 1950, 162: 665
- VITAMIN K, DEFICIENCY**
 - clotting time of chick plasma, 1938, 123: 352
 - environmental temperature, 1944, 141: 359
 - prothrombin defect in, 1947, 151: 67
- VITAMIN P FLAVONOIDS**
 - action on cutaneous circulation, 1951, 165: 293
 - connective tissue, 1949, 157: 422
 - epinephrine threshold of vascular bed, 1951, 164: 396
 - terminal vascular bed, 1951, 164: 391
- VITAMINS**
 - cholate synthesis, 1950, 163: 48
 - imbalance, reduced caloric intake, 1947, 150: 553
 - of urine, previous dietary intake, 1946, 145: 625; 1947, 149: 145
 - recovery from starvation, 1951, 166: 566
 - supplements, in rehabilitation, cardiac function, 1947, 150: 164

VITAMINS

synthesis, carbohydrate in diet, 1950, 162: 131

VITAMINS D

animals fed yellow corn diet, 1943, 139: 693

blood pressure, 1943, 138: 385

bone growth, 1946, 146: 591

calcium metabolism, 1951, 166: 389

calcium and phosphorus metabolism, 1942, 135: 583

capillary permeability, 1948, 154: 19

comparison of physiological effects with dihydro-tachysterol, 1942, 137: 171

D₂, blood pressure, 1943, 138: 387; 1943, 140: 226
calcium and phosphorus metabolism, 1942, 135: 580

single massive dose, 1947, 149: 324

D₃, blood pressure, 1943, 138: 388

calcium and phosphorus metabolism, 1942, 135: 581

fibrillation, atrophy of denervated muscle, 1942, 135: 750

intestinal secretion, 1949, 158: 132

metal rickets, 1938, 124: 231

parathyroid glands, 1943, 139: 406

peripheral action of, 1945, 143: 418

pituitary and calorogenic action of, 1939, 127: 552
thyroparathyroidectomy, serum calcium and citric acid, 1950, 160: 341

x-ray diffraction of bone, 1945, 143: 416

VITREOUS HUMOR: *see* EYE

VIVODIALYSIS

of extracellular fluid, 1949, 156: 290

of plasma potassium, 1949, 157: 401

VOGT, E.: *see* HAMILTON, W. F.

VOLKER, J. F., SOGNNÆS, R. F. and BIBBY, B. G.
Radioactive fluoride distribution, 1941, 132: 707

— *See* SOGNNÆS, R. F.

VOLLMER, E. P.

— *See* CAREY, M. M.

— *See* ZWEMER, R. L.

VOLPITTO, P. P., WOODBURY, R. A. and HAMILTON, W. F. Direct arterial and venous pressure measurements, 1940, 128: 238

VOLTAGE

capacity in Wallerian degeneration, 1939, 128: 21

injury to heart muscle, 1947, 150: 573

VOMITING CENTERS

radon destruction of, 1951, 166: 712

VON EULER, U. S.: *see* KÄNDL, F.

VON KORFF, R. W. and GLICK, D. Role of gastric urease, 1951, 165: 688

—, FERGUSON, D. J. and GLICK, D. Role of gastric urease, 1951, 165: 695

— *See* GLICK, D.

VONOTZKY, J. *see* DONHOFFER, S.

VOSBURGH, G. J. and FLEXNER, L. B. Maternal plasma as source of iron, 1950, 161: 202

— *See* FLEXNER, L. B.

W A. C.: *see* ADRENOCORTICAL HORMONES

WACHTEL, L. W., ELVEHJEM, C. A. and HART, E. B.

See page iii for guide to use of index

Physiology of manganese in the rat, 1943, 140: 72

WADE, J. D.: *see* DALEY, R.

WAGMAN, I. H. and GULLBERG, J. E. Monochromatic light and pupil diameter, 1942, 137: 769

— *See* GULLBERG, J. E.

— *See* MOHNEY, J. B.

WAGNER, C. E.: *see* GERSH, I.

WAKERLIN, G. E. and GAINES, W. Various agents in renal hypertension, 1940, 130: 568

—, JOHNSON, C. A., SMITH, E. L., MOSS, W. G. and WEIR, J. R. Renin in prophylaxis of experimental hypertension, 1942, 137: 515

— *See* FRANKEL, D. B.

— *See* MOSS, W. G.

— *See* PATRAS, MARY C.

WAKIM, K. G., FINK, R. D. and CHEN, K. K. Influence of adrenaline on plasma prothrombin, 1946, 145: 452

—, TERRIER, JEAN C., ELKINS, E. C. and KRUSEN, F. H. Muscle activity and circulation, 1948, 153: 183

WALCOTT, W. W. Blood volume in experimental hemorrhagic shock, 1945, 143: 247

— Standardization of experimental hemorrhagic shock, 1945, 143: 254

— and DEYRUP, INGRITH J. Cardiac effects of hypertonic solutions, 1948, 154: 328

— and DEYRUP, INGRITH J. Hypotension after hypertonic solutions, 1950, 160: 15

— *See* ALLISON, J. B.

— *See* DEYRUP, INGRITH J.

— *See* MELCHER, G. W., JR.

— *See* ROOT, W. S.

WALD, G., BROUHA, L. and JOHNSON, R. E. Physical fitness and vitamin A, 1942, 137: 551

—, JEGHERS, H. and ARMINIO, J. Human dietary night-blindness, 1938, 123: 732

— *See* JACKSON, BLANCHE

— *See* YOUNG, GENEVIEVE

WALDMAN, E. B.: *see* WILHELMJ, C. M.

WALES, MARILYN: *see* FURCHGOTT, R. F.

WALKER, A. C.: *see* MARSHAK, A.

WALKER, A. E.: *see* EICHELBERGER, LILLIAN

WALKER, A. M. Ammonia formation in the amphibian kidney, 1940, 131: 187

— Pituitary gland and water diuresis, 1939, 127: 519

— Urine volume after subcutaneous injections, 1939, 127: 541

— and OLIVER, JEAN. Collection of fluid from single glomeruli and tubules, 1941, 134: 562

—, BOTT, PHYLLIS A., OLIVER, JEAN and MACDOWELL, MURIEL C. Analysis of fluid from single nephrons, 1941, 134: 580

WALKER, FLORENCE. Coffee extracts and digestive enzymes, 1943, 139: 343

WALKER, L.

— *See* NECHELES, H.

— *See* OLSON, W. H.

WALKER, PATRICIA: *see* COMROE, J. H., JR.

WALKER, S. A.: *see* BRINKHOUS, K. M.

WALKER, S. M. Action potentials in DCA-treated rats, 1947, 150: 451

- Failure of potentiation in cooled muscle, 1951, 166: 480
- Potassium and muscle action potentials, 1948, 154: 63
- Quick stretch and twitch response, 1951, 164: 238
- Response of muscle to electrical stimulation, 1947, 149: 7
- Temperature and twitch potentiation, 1949, 157: 429
- , SMOLIK, E. A. and GILSON, A. S., JR. Effects of intracisternal potassium phosphate, 1945, 145: 223
- WALKING
 - force and energy changes in leg during, 1939, 125: 339
 - function of muscles in, 1939, 125: 357
- WALKLING, A. A.: *see* MUNRO, F. L.
- WALL, LUCILLE M.
 - *See* DONELSON, EVA G.
 - *See* LEICHSENRING, JANE M.
 - *See* PITTMAN, MARTHA S.
- WALLACE, S. L.: *see* LITTLE, J. M.
- WALLACE, W. M.: *see* COTLOVE, E.
- WALLACE, W. McL.: *see* FREEMAN, N. E.
- WALLERIAN DEGENERATION
 - centrifugal course of, 1943, 139: 247
 - study of, 1939, 128: 19
- WALLIKER, CATHERINE: *see* RIESEN, W. H.
- WALSH, E. G.: *see* BARLOW, H. B.
- WALTON, C. J.: *see* ARCADEACON, J. W.
- WALTON, R. P., COTTEN, M. DeV., BRILL, H. H. and GAZES, P. C. Contractile force of heart muscle, 1950, 161: 489
- WALTZER, F.: *see* HAMILTON, A. S.
- WALZL, E. M. Effect of chemicals on cochlear potentials, 1939, 125: 688
 - and BORDLEY, J. E. Lesions of organ of corti and cochlear potentials, 1942, 135: 351
- WANG, C. C. and GROSSMAN, M. I. Origin of alkaline phosphatase, 1949, 156: 256
 - and GROSSMAN, M. I. Release of secretin and pancreozymin, 1951, 164: 527
 - , GROSSMAN, M. I. and IVY, A. C. Hormonal control of pancreatic secretion, 1948, 154: 358
 - , WANG, K. J. and GROSSMAN, M. I. Pancreatic function after duct ligation, 1950, 160: 115
- WANG, C. F. and HEGSTED, D. M. Blood volume in rats, 1949, 156: 218; 1949, 156: 227
- WANG, F. C. and VERZÁR, F. Adrenal hormones and glycogenesis, 1949, 159: 263
 - *See* SASS-KORTSÁK, A.
- WANG, H.: *see* WEISS, P.
- WANG, K. J.: *see* WANG, C. C.
- WANG, S. C. Afferent nervous factor in traumatic shock, 1947, 148: 547
 - and BORISON, H. L. Carotid sinus cardiovascular reflex, 1947, 150: 712; 1947, 150: 722
 - and BORISON, H. L. Emesis and gastrointestinal tract, 1951, 164: 520
 - and BORISON, H. L. Radon destruction of vomiting center, 1951, 166: 712
 - and CLARK, G. Decussation of hypothalamic pathways to bladder, 1940, 130: 74
 - and HARRISON, F. Bladder responses to hypothalamic stimulation, 1939, 125: 301
 - and RANSON, S. W. Hypothalamus and preoptic region and heart wave, 1941, 132: 5
 - , CLARK, G., DEY, F. L. and RANSON, S. W. Hypothalamus and gastro-intestinal motility, 1940, 130: 81
 - , OVERMAN, R. R., FERTIG, J. W., ROOT, W. S. and GREGERSEN, M. I. Blood volume and mortality rate in shock, 1947, 148: 164
 - , PAINTER, ELIZABETH E. and OVERMAN, R. R. Fluorescein circulation time in traumatic shock, 1947, 148: 69
 - *See* CLARK, G.
 - *See* HARRISON, F.
 - *See* OVERMAN, R. R.
- WANGENSTEEN, O. H.: *see* TRACH, B.
- WAPNER, S.: *see* BEAN, J. W.
- WARD, ELIZABETH O.: *see* INGLE, D. J.
- WARD, G. M.: *see* REID, J. T.
- WARD, H. P.
 - *See* BLAKE, W. D.
 - *See* WÉGRIA, R.
- WARD, J. W.
 - *See* CLARK, G.
 - *See* CLARK, S. L.
- WARE, A. G. and SEEGER, W. H. Serum Ac-globulin, 1948, 152: 567
 - , FAHEY, J. L. and SEEGER, W. H. Studies on platelets, 1948, 154: 140
 - , GUEST, M. M. and SEEGER, W. H. Stability of prothrombin, 1947, 150: 58
 - , HILL, R. M. and SCHULTZ, F. H. Respiration and body temperature, 1947, 149: 657
 - *See* FAHEY, J. L.
 - *See* GUEST, M. M.
 - *See* MURPHY, R. C.
- WARKENTIN, J., HUSTON, J. H., PRESTON, F. W. and IVY, A. C. Mechanism of bile flow inhibition, 1943, 138: 462
 - , WARKENTIN, L. and IVY, A. C. Experimental thyroid abnormalities and appetite, 1943, 139: 139
- WARKENTIN, L.: *see* WARKENTIN, J.
- WARNER, E. D., BRINKHOUS, K. M. and SMITH, H. P. Plasma prothrombin levels in vertebrates, 1939, 125: 296
 - *See* BRINKHOUS, K. M.
- WARREN, C. O. Effects of thiouracil on bone marrow, 1945, 145: 71
 - Metabolism of rabbit bone marrow in serum, 1940, 128: 455
 - Respiration and glycolysis of bone marrow, 1940, 131: 176; 1941, 135: 249
 - Respiration and glycolysis of leukemic tissues, 1943, 139: 719
 - and EBAUGH, F. G., JR. Anaerobic glycolysis of rat liver in vitro, 1946, 147: 509
 - , SCHUBMEHL, Q. D. and WOOD, I. R. Mechanism of cobalt polycythemia, 1944, 142: 173
- WARREN, J. V., STEAD, E. A., JR. and BRANNON, E. S. Cardiac output by right heart catheterization, 1946, 145: 458

WARREN, J. V., STEAD, E. A., JR. and BRANNON, E. S.

See EBERT, R. V.

— See NICKERSON, J. L.

WARREN, M. R. Uterine fluid of rat, 1938, 122: 602

WARREN, MADELEINE F. and DRINKER, C. K. Flow of lymph from the lungs, 1942, 136: 207

—, PETERSON, DELORES K. and DRINKER, C. K. Factors increasing the flow of lung lymph, 1942, 137: 641

— See BEECHER, H. K.

— See DRINKER, C. K.

— See MAURER, F. W.

WARREN, S. L.: see ARIEL, I.

WASSERMAN, K. and MAYERSON, H. S. Albumin in plasma and lymph, 1951, 165: 15

WASSERMAN, P.: see ABRAMSON, D. I.

WASTENEYS, H., CROCKER, B. F. and HAMILTON, P. B. Digestion in the dog, 1941, 135: 6

WATER

absorption from gastrointestinal tract, 1945, 144: 355
from ileum, 1940, 131: 402

deprivation in diabetes insipidus, 1938, 121: 112

specific gravity of plasma, 1947, 150: 729

distilled, injurious effect on ileal mucosa, 1940, 129: 172

movement from gut to blood, 1944, 142: 550

permeability of bladder to, 1951, 165: 87

of cells to, 1944, 142: 440

of frog skin to, 1951, 164: 44

redistribution in shock, 1947, 151: 155

retention of, 1943, 138: 191

salt, 1939, 125: 416

transfer across placenta, 1942, 136: 750

transport across gut wall during absorption, 1945, 144: 468

uptake by frog skin, 1951, 164: 137, 1951, 167: 255

vasodilator effect of, 1951, 165: 135

WATER (AS TISSUE CONSTITUENT)

determination in tissues, 1944, 142: 510

distribution in animal body, 1942, 135: 430

in blood and plasma, 1949, 159: 57

in blood fluid and muscle in pregnancy, 1942, 137: 384

in experimental diabetes, 1941, 132: 421

in sexual skin of baboon, 1940, 131: 325

gravity shock, 1947, 149: 373

injection of hypotonic saline, 1949, 159: 61

intracellular, measurement in man, 1950, 162: 318

of adrenals, kidney, and muscle, after x-radiation, 1947, 150: 482

of blood, B complex deficiency, 1944, 141: 85

exchange between blood and muscle during stimulation, 1940, 128: 644

salts in, 1948, 152: 77

of blood, muscle and liver, 1939, 127: 387

of body as affected by diet, 1942, 135: 393

distribution of, during anoxia, 1947, 149: 103

high fat diet, 1944, 142: 510

in dog, 1940, 129: 744

movements of, in response to acute blood loss, 1946, 147: 306

total in man, 1950, 162: 313

whole-body x-irradiation, 1951, 164: 450

of brain, 1941, 132: 457

concussion, 1949, 156: 129

of brain and plasma, 1949, 156: 325

of brain cortex, 1949, 157: 236

of cartilage, 1951, 166: 328

of eye tissue, 1943, 140: 310

of genital tract, 1940, 130: 290

of heart-lung preparation, 1942, 136: 519

of liver and muscle in hemorrhagic shock, 1946, 147: 176

of muscle, 1940, 129: 267; 1951, 166: 426

acidosis, 1951, 167: 669

after thiopental, 1951, 167: 298

during atrophy, 1950, 161: 407

ischemia, 1951, 167: 291; 1951, 167: 308

stimulation, 1938, 121: 600

thyroxin, 1944, 142: 398

of muscle and skin, splenectomy, 1950, 160: 298

of myocardium, after coronary occlusion, 1942, 136: 481

of normal and denervated muscles, 1939, 127: 610

of plasma and cells as affected by hemorrhage and trauma, 1947, 149: 426

of plasma and cerebral cortex, 1949, 156: 165

of rat tissues, 1944, 141: 146

of serum, electrolyte distribution in, 1949, 159: 61

splenectomy, 1950, 160: 297

of serum and myocardium, 1951, 166: 279

of skin, as affected by diet, 1942, 135: 393

of skin and muscle in dehydration, 1946, 147: 49;

1946, 147: 400

of tissues at low atmospheric pressure, 1944, 142: 63

dietary mineral supplements, 1938, 121: 379

exophthalmos, 1943, 140: 312

in hypertension, 1950, 161: 279

of adrenalectomized and normal dogs, 1950, 160: 98

of urine, electrolyte distribution in, 1949, 159: 61

pitressin, 1947, 151: 174

of various organs, diet and exercise, 1940, 128: 539

WATER BALANCE

acclimatization to heat, 1943, 140: 324

after desoxycorticosterone treatment, 1940, 131: 73

alarm reaction, 1939, 128: 226

antagonism of desoxycorticosterone and posterior pituitary extract, 1941, 133: 511

comparative effects of pitressin and pitocin, 1938, 124: 764

continuously administered salt solutions, 1945, 143: 573

DCA and, sodium chloride intake, 1948, 154: 465

deep hypothermia, 1943, 140: 9

diabetes insipidus, 1938, 121: 112

energy metabolism at various temperatures, 1948, 152: 233

environmental conditions, 1940, 129: 95

exchange in diabetes insipidus, 1938, 122: 143

in muscle and blood, 1940, 128: 639

exercise, emotional stress, 1951, 165: 149

gastric filling, 1950, 161: 382

- heat production, 1942, 135: 574
hypertonic plasma, 1942, 136: 195
hypothalamic lesions, 1950, 161: 35
hypothalamico-hypophyseal system, 1941, 133: 582
in frogs, posterior pituitary extract, 1938, 122: 191
in kidney slices, 1951, 167: 208
in pyridoxine deficiency, 1951, 166: 538
in the desert, 1938, 123: 369
infusion of hypertonic solutions, 1949, 159: 162
intra-abdominal pressure, 1951, 167: 245
ion exchange resins, 1950, 160: 268
nitrogen mustard, 1948, 155: 295
partial nephrectomy, 1948, 155: 317
pharmacological agents, 1948, 155: 310
pitressin, 1939, 127: 64
posterior pituitary, 1949, 157: 412
temperature changes, 1945, 143: 378
vitamin B deficiency, 1944, 141: 85
whole-body x-irradiation, 1951, 164: 450
- WATER DIURESIS**
change in urine pH with, 1947, 148: 328
continuous administration of water, 1945, 143: 567
filtration rate, 1951, 166: 416
in salt-depleted dog, 1951, 167: 473
pituitary involvement in experimental control of, 1940, 128: 506
potassium secretion, 1950, 161: 160
urine output, renal plasma flow, glomerular filtration rate, 1947, 150: 527
- WATER DRINKING: see WATER INTAKE**
- WATER INTAKE**
ability to work in heat, 1945, 143: 171
atropine, 1949, 157: 149
extracellular electrolyte depletion, 1951, 164: 415
factors affecting, 1938, 122: 668
kidney function, 1938, 123: 566
measurement of in dog, 1939, 125: 75
of animals given corn syrups and thiamin, 1945, 145: 112
pattern in dogs, 1943, 139: 39
pituiratin, 1940, 129: 647
plasma volume, available fluid volume, 1939, 125: 147
ratio to dry food ingested, 1948, 153: 29
response to repeated ingestion of, 1938, 121: 40
sodium chloride and, in work in dry heat, 1943, 140: 444
thiouracil, thyroidectomy, 1946, 146: 440
work in heat, 1944, 142: 254
- WATER INTOXICATION**
acquired resistance to, 1945, 144: 571
adrenal steroids, 1942, 135: 379
E.E.G., 1946, 146: 559
heart rate, body temperature, 1946, 146: 564
in frog, 1942, 136: 42
- WATER MOCCASIN**
venom, heart, 1940, 130: 615
- WATER VAPOR**
respiratory, at simulated altitude, 1949, 156: 299
- WATER, EXCRETION**
during osmotic diuresis, 1948, 153: 465
extracellular fluid volume, 1950, 162: 677
glomerular and tubular influences on, 1951, 165: 411
human albumin, 1951, 164: 167
loss, from small areas of skin, 1941, 132: 748
regional relationships of, 1943, 138: 603
through skin and lungs, 1946, 145: 437
pitressin, 1947, 151: 174
posterior pituitary extract, 1940, 128: 748
reabsorption, 1949, 159: 124
renal arterial constriction, 1950, 163: 422
renal regulation of, retention, 1947, 148: 54
renal venous pressure, 1949, 157: 5
renin, 1951, 166: 621
- WATERS, E. T. and MARKOWITZ, J.** Typical anaphylaxis in hepatectomized dog, 1940, 130: 379
—, **FLETCHER, JEAN P. and MIRSKY, I. A.** Use of carbohydrate and ketone bodies by heart, 1938, 122: 542
—, **MARKOWITZ, J. and JAKUES, L. B.** Anaphylactic shock in dogs with Eck fistula, 1946, 146: 487
— *See* CHUTE, A. L.
— *See* YOUNG, F. G.
- WATKINS, A. L.** Reflex responses of blood pressure, 1938, 121: 32
— and **FULTON, M. N.** Fluids and volume of thoracic duct lymph, 1938, 122: 281
- WATMAN, R. N. and NASSET, E. S.** Thyroid and gastric function, 1951, 166: 131
— and **NASSET, E. S.** Thyroid and peptic ulcer, 1949, 157: 216
- WATROUS, W. G. and OLMSTED, J. M. D.** Reflex studies after muscle transplantation, 1941, 132: 607
— *See* MORGAN, M. W., JR.
- WATSON, J. L.: see FUHRMAN, F. A.**
- WATT, J. G., DUMKE, P. R. and COMROE, J. H., JR.** Chemoreceptor control of respiratory minute volume, 1943, 138: 610
- WATTS, W. E.: see EBERT, R. V.**
- WAX, FLORENCE, S.: see HOFFMAN, B. F.**
- WAXLER, S. H.** Blood changes due to coccidiosis and bleeding, 1941, 134: 19
— and **BRECHER, G.** Goldthioglucose and obesity, 1950, 162: 428
- WEANING**
micturition volume in rat, 1943, 139: 535
- WEARN, J. T.**
— *See* ECKSTEIN, R. W.
— *See* GREGG D. E.
— *See* HITCHINGS, G. H.
— *See* SHIPLEY, R. E.
- WEASEL**
vitamin A reserves of, 1938, 123: 695
- WEAST, ELSIE O., GROODY, MARY and MORGAN, AGNES F.** Utilization of nitrogen of heated casein, 1948, 152: 286
- WEATHERFORD, CAROLYN: see HUF, E. G.**
- WEBB, E. A.: see ALEXANDER, R. S.**
- WEBB, J. L.: see NAKAMURA, K.**
- WEBER-FECHNER LAW**
in studies of thermal sensation and discrimination, 1941, 134: 645

- WEBER, G. and DRECHSLER, KATHERINE. Effect of hormones on enzymes, 1950, 162: 289
 — and DRECHSLER, KATHERINE. Effect of vitamins on thrombin, 1950, 162: 665
 — See MONKHOUSE, F. C.
- WEBER, JANET, IRWIN, MARGARET H. and STEENBOCK, H. Vitamin E destruction by rancid fats, 1939, 125: 593
 — See IRWIN, MARGARET H.
- WEBSTER, ELIZABETH: see GLASS, H. G.
- WEBSTER, J. E.: see GURDJIAN, E. S.
- WEBSTER, MARY R.: see OPPENHEIMER, M. J.
- WEDD, A. M. and BLAIR H. A. Turtle ventricle under acetylcholine and epinephrine, 1945, 145: 147
 — See BLAIR, H. A.
- WEEKS, W. F.
 — See BERNTHAL, T.
 — See WINDER, C. V.
- WÉGRIA, R. and WIGGERS, C. J. Alternating currents and ventricular fibrillation, 1940, 131: 119
 — and WIGGERS, C. J. Direct currents and ventricular fibrillation, 1940, 131: 104
 —, FRANK, C. W., MISRAHY, G. A., SIOUSSAT, R. S., SOLMER, L. S. and McCORMACK, G. H., JR. Auricular fibrillation, 1950, 163: 135
 —, KEATING, R. P., WARD, H. P., DREYFUSS, F., FRANK, C. W. and BLUMENTHAL, M. R. Coronary blood flow, 1950, 160: 177
 —, MOE, G. K. and WIGGERS, C. J. Vulnerable period for ventricular fibrillation, 1941, 133: 651
 —, ROJAS, A. G. and WIGGERS, C. J. Vascular shock in heart-lung-dog preparation, 1943, 138: 212
 — See BLAKE, W. D.
 — See GREEN, H. D.
 — See WIGGERS, C. J.
- WEHRMACHER, W. H.: see HINES, H. M.
- WEIGHT (ORGAN): see name of organ
- WEIGHT (TOTAL ORGANISM): see BODY WEIGHT
- WEINBERG, S. L.: see HWANG, W.
- WEINER, H. M.: see RILEY, R. L.
- WEINER, M.: see NECHELES, H.
- WEINER, R. S.: see FRIEDMAN, E. W.
- WEINGLASS, A. R. and TAGNON, H. J. Effects of chymotrypsin on insulin and blood glucose, 1945, 143: 277
 — See TAGNON, H. J.
- WEINMANN, J. P.: see WESSINGER, G. D.
- WEINSHEL, M.: see STAMLER, J.
- WEINSTEIN, E. A. and BENDER, M. B. Reaction of denervated iris to adrenaline, 1942, 135: 535
 — See BENDER, M. B.
- WEINSTEIN, H. G.: see UNGAR, G.
- WEINSTEIN, HARRIET R.: see FOÀ, P. P.
- WEINSTEIN, R. E.: see SALK, M. R.
- WEINSTEIN, W.: see KATZ, L. N.
- WEIR, E. G. Body chloride after administering sodium bromide, 1939, 127: 338
 — Body fat and body chloride, 1940, 130: 608
 — Serum bromide concentration and distribution of ion, 1942, 137: 109
 — Sodium bromide and the blood-spinal fluid barrier, 1945, 143: 83
- WEIR, J. R.: see WAKERLIN, G. E.
- WEISBERG, H. F., CAREN, R., HUDDLESTON, B. and LEVINE, R. Hyperglycemic factor of insulin, 1949, 159: 98
 —, FRIEDMAN, A. and LEVINE, R. Insulin inactivation by liver, 1949, 158: 332
 — See LEVINE, R.
- WEISBERGER, A. S.: see PRITCHARD, W. H.
- WEISIGER, J. R.: see GARDNER, L. I.
 — See WESTERFELD, W. W.
- WEISS, A. J.: see AVIADO, D. M., JR.
 — See FOLTZ, E. L.
- WEISS, P. and CAMPBELL, C. J. Nerve regeneration in the rat, 1944, 140: 616
 — and EDDS, M. V., JR. Recovery of partially denervated muscle, 1946, 145: 587
 —, WANG, H., TAYLOR, A. C. and EDDS, M. V., JR. Fluid convection in endoneurial spaces of nerves, 1945, 143: 521
- WEISSBERGER, LOUISE H. and NASSET, E. S. Absorption of radioactive P in anesthetized dog, 1942, 138: 149
- WELCH, C. S.: see ADAMS, W. L.
- WELD, C. B., FEINDEL, W. H. and DAVSON, H. Penetration of sugars into aqueous humour, 1942, 137: 421
 — See DAVSON, H.
- WELLER, J. M. Renal histochemistry in diuresis dehydration, 1944, 142: 443
- WELLS, E. B.: see MENEELY, G. R.
- WELLS, H. S. Acoustic stimuli and post-contraction hypertonus, 1944, 141: 486
 — Flow of fluid through intestinal mucosa, 1940, 130: 410
 — See LITTLE, J. M.
- WELLS, J. A., MERCER, T. H., GRAY, J. S. and IVY, A. C. Motor innervation of the colon, 1942, 138: 83
 — See GRAY, J. S.
- WELLS, K.: see CHAMBLISS, J. R.
- WELLS, L.: see SAFFORD, H.
- WELSH, C. A., ROSENTHAL, A., DUNCAN, M. T. and TAYLOR, H. C., JR. Testosterone propionate and renal function, 1942, 137: 338
- WELSH, J. H. Insulin and response of frog muscle to acetylcholine, 1944, 141: 109
 — and HYDE, JANE E. Potassium and acetylcholine synthesis, 1944, 142: 512
 — See ZACKS, S. I.
- WELT, L. G.: see STEVENSON, J. A. F.
- WENER, J., HOFF, H. E., SCOTT, H. and WINTER, H. Neurohumoral regulation of potassium balance, 1950, 161: 289
- WERKO, L.: see COURNAND, A.
 — See MOTLEY, H. L.
- WERLE, J. M., BRODY, D. A., LIGON, E. W., JR., READ, M. R. and QUIGLEY, J. P. Mechanics of gastric evacuation, 1941, 131: 606
 —, CROSBY, R. S. and WIGGERS, C. J. Hemorrhagic

- hypotension and hemorrhagic shock, 1942, 136: 401
- See BRODY, D. A.
- See LEWIS, R. N.
- See QUIGLEY, J. P.
- See WIGGERS, C. J.
- WERTHESEN, N. T. and FIELD, N. S. Estrogen degradation by liver, 1950, 160: 41
- , BAKER, C. F. and FIELD, N. S. Estrone conversion, 1951, 167: 166
- See PINCUS, G.
- WESCOE, W. C., HUNT, C. C., RIKER, W. F. and LITT, IRENE C. Regeneration rates of serum cholinesterase, 1947, 149: 549
- See KUNKEL, ANNE M.
- WESSINGER, G. D. and WEINMANN, J. P. Effect of manganese and boron on rat incisor, 1943, 139: 233
- WESSON, L. G., JR. and ANSLOW, W. P., JR. Excretion of sodium and water in the dog, 1948, 153: 465
- , ANSLOW, W. P., JR., RAISZ, L. G., BOLOMEY, A. A. and LADD, M. Extracellular fluid volume and renal function, 1950, 162: 677
- WEST, C. D. and RAPOPORT, S. Urine flow and solute excretion, 1950, 163: 159
- See RAPOPORT, S.
- WEST, T. C., HADDEN, G. and FARAH, A. Anoxia and smooth muscle, 1951, 164: 565
- WESTERFELD, W. W., MCKIBBIN, J. M., ROEMMELT, J. C. and HILFINGER, M. F. Liver and acetaldehyde metabolism, 1949, 157: 184
- , WEISIGER, J. R., FERRIS, B. G., JR. and HASTINGS, A. B. Production of shock by callicrein, 1944, 142: 519
- See GARDNER, L. I.
- WESTFALL, B. A. Ca, Mg and phenobarbital on Q_{O_2} , 1951, 166: 219
- WESTFALL, B. B.: see RICHARDS, A. N.
- WESTON, R. E., JANOTA, MARTHA, LEVINSON, S. O. and NECHELES, H. Hemoconcentration and shock following hemorrhage, 1943, 138: 450
- See KAREL, L.
- WETRICH, R. M.: see LAWRENCE, J. S.
- WETZIG, P. and D'AMOUR, F. E. Polycythemia and carrot diet in resistance to anoxia, 1943, 140: 304
- WEVER, E. G., LAWRENCE, M., HEMPHILL, R. W. and STRAUT, C. B. Effects of O_2 deprivation, 1949, 159: 199
- WEYMOUTH, F. W.: see FUHRMAN, GERALDINE J.
- WHATLEY, E. C.: see LITTLE, J. M.
- WHATMORE, G. B. and KLEITMAN, N. Cortical extirpations and conditioned reflexes, 1946, 146: 282
- , MORGAN, E. A. and KLEITMAN, N. Avoidance and non-avoidance conditioning, 1946, 145: 432
- WHEAT GERM OIL
- nutritive value of, 1947, 148: 47
- WHEELER, B., JACKSON, M. A. and HAHN, P. F. Hematology and radioactive colloids, 1951, 166: 323
- WHEELER, N. C.: see BERRYMAN, G. H.
- See HAMILTON, W. F.
- See REMINGTON, J. W.
- WHEELER, R. S. and PERKINSON, J. D., JR. Hyperthyroidism and vitamin E, 1949, 159: 287
- WHIPPLE, G. H.: see GYÖRGY, P.
- See HAWKINS, W. B.
- See ROBSCHT-ROBBINS, F. S.
- WHITAKER, W. L.: see BAKER, B. L.
- WHITCHER, C. E. and GRIFFITH, F. R., JR. Calorigenic action of adrenaline, 1949, 156: 114
- WHITE BLOOD CELLS: see LEUKOCYTES
- WHITE MATTER
- cholinesterase content of, 1948, 155: 61
- WHITE, C. S.: see HUDDLESTON, O. L.
- WHITE, FLORENCE: see GESELL, R.
- WHITE, H. L. Behavior of diodrast in the dog, 1940, 130: 454
- Cardiac output measurement, 1947, 151: 45
- Effects of phlorhizin on renal function, 1940, 130: 582
- Glomerular intermittence, 1939, 128: 159
- Response to repeated water ingestion, 1938, 121: 40
- and HEINBECKER, P. Kidney function in polyuria, 1938, 123: 566
- and HEINBECKER, P. Renal clearances after hypophysectomy, 1940, 130: 464
- and ROLF, DORIS. Exercise and renal circulation in man, 1948, 152: 505
- , HEINBECKER, P. and ROLF, DORIS. Anterior lobe of hypophysis and renal function, 1942, 136: 584
- , HEINBECKER, P. and ROLF, DORIS. Endocrine influences on cardiac output, 1947, 151: 239
- , HEINBECKER, P. and ROLF, DORIS. Endocrine influences on renal functions, 1947, 149: 404
- , HEINBECKER, P. and ROLF, DORIS. Growth hormone and renal function, 1949, 157: 47
- , HEINBECKER, P. and ROLF, DORIS. Renal function after hypophysectomy, 1949, 156: 67
- , HEINBECKER, P. and ROLF, DORIS. Renotropic effects of growth hormone, 1951, 165: 442
- See HARTMANN, A. F., JR.
- See HEINBECKER, P.
- See MUELLER, C. B.
- See NETRAVISESH, V.
- See SURTSHIN, A.
- WHITE, I. U.: see QUIMBY, F. H.
- WHITE, L.: see PONDER, E.
- WHITE, M. S.: see ERSHLER, I.
- WHITE, W. A., JR.: see PACE, N.
- WHITE, W. C.: see REID, MARY E.
- WHITEHEAD, R. W.: see GOLDENSOHN, E. S.
- WHITEHORN, W. V., EDELMANN, A. and HITCHCOCK, F. A. Cardiovascular responses to breathing pure oxygen, 1946, 146: 61
- , LEIN, A. and EDELMANN, A. Cardiovascular responses to explosive decompression, 1946, 147: 289
- , LEIN, A., EDELMANN, A. and HITCHCOCK, F. A. Cerebrospinal fluid pressure and decompression, 1947, 148: 253
- See STACY, R. W.

- WHITELEY, A. H. and McELROY, W. D. Denitrogenation of muscle and fat, 1946, 146: 229
 — See McELROY, W. D.
- WHITNEY, RAE: see BURDICK, H. O.
- WHITTENBERGER, J. L.: see EGAÑA, E.
 — See SARNOFF, S. J.
- WHYTE, D. W.: see BOYD, E. M.
- WICK, A. N. and DRURY, D. R. Glucose concentration and oxidation, 1951, 167: 359
 — and DRURY, D. R. Insulin and permeability of cells to sorbitol, 1951, 166: 421
 — and MACKAY, E. M. Influence of age on ketosis, 1940, 130: 332
 —, DRURY, D. R. and MACKAY, E. M. Glucose space of the body, 1950, 163: 224
 — See BARNES, R. H.
 — See DRURY, D. R.
 — See MACKAY, E. M.
- WIEBELHAUS, V. D.: see BEYER, K. H.
- WIEBERS, J. E.: see STEMLER, F. W.
 — See ZARROW, M. X.
- WIECZOROWSKI, E.: see GRAY, J. S.
- WIERSMA, C. A. G.: see VAN HARREVELD, A.
- WIGGERS, C. J. Failure of transfusions in hemorrhagic shock, 1945, 144: 91
 — Vascular factors in arterial pressure and blood flow, 1938, 123: 644
 — Ventricular fibrillation and vagal stimulation, 1941, 133: 634
 — and WÉGRIA, R. Quantitative measurement of fibrillation thresholds, 1940, 131: 296
 — and WÉGRIA, R. Size and distensibility of aorta in hypertension, 1938, 124: 603
 — and WÉGRIA, R. Ventricular fibrillation from single shocks, 1940, 128: 500
 — and WERLE, J. M. Cardiac and vascular factors in hemorrhagic shock, 1942, 136: 421
 —, LEVY, M. N. and GRAHAM, G. Regional intrathoracic and effective venous pressures, 1947, 151: 1
 —, OPDYKE, D. F. and JOHNSON, J. R. Portal pressure gradients in hemorrhagic shock, 1946, 146: 192
 —, WÉGRIA, R. and NICKERSON, N. D. Reactions of aorta in hypotension and shock, 1943, 138: 491
 —, WÉGRIA, R. and PIHERA, B. Myocardial ischemia and fibrillation threshold, 1940, 131: 309
 — See DINGLE, JANET T.
 — See DUOMARCO, J. L.
 — See ECKSTEIN, R. S.
 — See KOHRMAN, R. M.
 — See LEWIS, R. N.
 — See MIDDLETON, S.
 — See MOE, G. K.
 — See OPDYKE, D. F.
 — See POST, R. S.
 — See SHANNON, E. W.
 — See WÉGRIA, R.
 — See WERLE, J. M.
 — See WRIGHT, G. W.
- WIGGERS, H. C. Cardiac output and peripheral resistance, 1944, 140: 519
- and INGRAHAM, R. C. Value of alkalinizing agents in hemorrhagic shock, 1946, 146: 431
- and MIDDLETON, S. Peripheral and cardiac events in hemorrhagic shock, 1944, 140: 677
- , DUSCHATKO, A. M. and KORY, R. C. Circulatory responses to small amounts of adrenaline, 1942, 136: 87
- , GLASER, G. H., CANAVARRO, K. DES. and TREAT, A. E. Blood pressures after complete transection of cord, 1943, 139: 217
- , INGRAHAM, R. C. and DILLE, J. Hemorrhagic-hypertension shock, 1945, 143: 126
- , INGRAHAM, R. C., ROEMMILD, F. and GOLDBERG, H. Vasoconstriction and hemorrhagic shock, 1948, 153: 511
 — See INGRAHAM, R. C.
- WIGGINS, M. L.: see BROOKS, C. McC.
- WILBER, D. T.: see GRUMBACH, L.
- WILBURNE, M., SCHLICHTER, J. G., GROSSMAN, M. I. and CISNEROS, F. Acetylcholine in determination of circulation time, 1947, 150: 504
- WILDE, W. S. Chloride equilibrium in muscle, 1945, 143: 666
- , COWIE, D. B. and FLEXNER, L. B. Placental permeability, 1946, 147: 360
 — See ASHMAN, R.
 — See COWIE, D. B.
 — See FENN, W. O.
 — See FRIEDLANDER, H. D.
 — See SHEATZ, G. C.
- WILHELM, A. E., ENGEL, MILDRED G. and LONG, C. N. H. Resistance of liver respiration to anoxia, 1946, 147: 181
- , RUSSELL, JANE A., ENGEL, F. L. and LONG, C. N. H. Hepatic anoxia and respiration of liver slices, 1945, 144: 669
- , RUSSELL, JANE A., ENGEL, MILDRED G. and LONG, C. N. H. Metabolism of liver tissue in hemorrhagic shock, 1945, 144: 674
- , RUSSELL, JANE A., LONG, C. N. H. and ENGEL, MILDRED G. Brain metabolism in anoxia and after hemorrhage, 1945, 144: 683
- WILHELMJ, C. M., WALDMANN, E. B. and McGUIRE, T. F. Basal blood pressure and effect of fasting, 1951, 166: 296
- WILHOYTE, KATHARINE M.: see BEYER, K. H.
- WILKINS, L.: see FLEISCHMANN, W.
- WILKINS, R. W. and BRADLEY, S. E. Blood pressure and flow distal to constricting cuff, 1946, 147: 260
- WILLIAMS, A. H. and SCHROEDER, H. A. Peripheral vascular resistance, 1948, 155: 132
- WILLIAMS, C. M. and BEECHER, H. K. Oxygen poisoning, 1944, 140: 566
- WILLIAMS, E. F., JR., COX, W. W. and NASH, T. P., JR. Gastric secretion after injection of yeast extract, 1940, 131: 378
- , HOFFMAN, C. F. and NASH, T. P., JR. Stimulation of gastric secretion by neurine, 1943, 139: 364
- WILLIAMS, J. R., JR. Drugs and action of renal pressor substance, 1938, 124: 83

- and GROSSMAN, E. B. Recovery of adrenaline-like substance from kidney, 1938, 123: 364
- , GROLLMAN, A. and HARRISON, T. R. Renal extract in experimental hypertension, 1940, 130: 496
- See GROLLMAN, A.
- See HARRISON, T. R.
- WILLIAMS, L. L.: see DINGLE, JANET T.
- WILLIAMS, M. M. D.: see ROTH, GRACE M.
- WILLIAMS, R. H. and KAY, GLORIA A. Absorption, distribution and excretion of thiourea, 1945, 143: 715
- , JAFFE, H. and KEMP, CAROL. Stress and thyroid function, 1949, 159: 291
- See JANDORF, B. J.
- WILLIAMSON, W. J.: see SMITH, D. L.
- WILLIS, ALICE: see FREEDMAN, A. M.
- WILLMON, T. L. and BEHNKE, A. R. N_2 and O_2 transport at high barometric pressures, 1941, 131: 633
- , and BEHNKE, A. R.: Residual lung volume, 1948, 153: 138
- See BEHNKE, A. R.
- WILLNER, M. D.: see KENNARD, MARGARET A.
- WILLS, J. H. Electrolyte changes in submaxillary glands, 1941, 135: 164
- Factors in submaxillary secretion, 1941, 134: 441
- Sensitization of submaxillary gland to acetylcholine, 1942, 135: 523
- Speed of responses of various muscles, 1942, 136: 623
- and FENN, W. O. Stimulation and potassium of submaxillary gland, 1938, 124: 72
- and MAIN, EDNA. Uranium and renal function, 1948, 154: 220
- See ROSENBLUTH, A.
- WILLS, JOYCE: see HUF, E. G.
- WILMER, H. A. Mechanism of sucrose damage to kidney tubules, 1944, 141: 431
- WILMOT, VALERIE: see SWANK, R. L.
- WILSON, DORIS: see HEGSTED, D. M.
- WILSON, HELEN J.: see ARIEL, I.
- WILSON, J. W.: see ASMUSSEN, E.
- WILSON, MARY L. and MCGINTY, D. A. Thyroid and ergothioneine, 1949, 156: 377
- WILSON, W. O. and PLAISTER, T. H. Skin and feather temperatures of hens, 1951, 166: 572
- WINBURY, M. M., BEACH, DORIS A. and MICHIELS, PATRICIA M. Vasodilator action of water and blood, 1951, 165: 135
- WIND
 - reactions to exposure to, 1948, 152: 242
- WINDER, C. V. Carotid body anoxia, hypercapnia and asphyxia, 1942, 136: 200
- Carotid sinus pressoreceptive respiratory reflex, 1938, 122: 306
- Extra-vagal cardiac control through carotid sinus, 1938, 124: 421
- , BERNTHAL, T. and WEEKS, W. F. Ischemic excitation of carotid body, 1938, 124: 238
- WINDLE, W. F. and BARCROFT, J. Initiation of respiration in the chick, 1938, 121: 684
- and NELSON, DOROTHY. Development of respiration in the duck, 1938, 121: 700
- , SCHARFENBERG, L. G. and STEELE, A. G. Respiratory effect of CO_2 and anoxemia in chick, 1938, 121: 692
- See BECKER, R. F.
- See CHAMBERS, W. W.
- See GROAT, R. A.
- See RHINES, R.
- WINGO, W. J.: see MARVIN, H. N.
- See MOORE, R. M.
- WINKLER, A. W. and HOFF, H. E. Potassium and shock, 1943, 139: 686
- and SMITH, P. K. Renal excretion of potassium salts, 1942, 138: 94
- , ELKINTON, J. R. and EISENMAN, ANNA J. Measurement of extracellular fluid, 1943, 139: 239
- , HOFF, H. E. and SMITH, P. K. Electrocardiographic changes and serum potassium, 1938, 124: 478
- , HOFF, H. E. and SMITH, P. K. Toxicity of potassium, 1939, 127: 430
- See DANOWSKI, T. S.
- See HOFF, H. E.
- See SCHWARTZ, B. M.
- See SMITH, P. K.
- WINSLOW, C.-E. A. and GAGGE, A. P. Reactions to thermal environment and physical work, 1941, 134: 664
- , GAGGE, A. P. and HERRINGTON, L. P. Air movement and heat loss from clothed human body, 1939, 127: 505
- , GAGGE, A. P. and HERRINGTON, L. P. Heat exchange and regulation in radiant environments, 1940, 131: 79
- , HERRINGTON, L. P. and GAGGE, A. P. Reactions of clothed body to atmospheric humidity, 1938, 124: 692
- , HERRINGTON, L. P. and GAGGE, A. P. Temperature regulation of clothed body, 1938, 124: 51
- See GAGGE, A. P.
- See NIELSON, M.
- WINTER, C. A. and INGRAM, W. R. Polyuria caused by desoxycorticosterone, 1943, 139: 710
- and KNOWLTON, G. C. Muscular capacity after adrenalectomy and fasting, 1940, 131: 465
- , INGRAM, W. R. and EATON, R. C. Renal function in experimental diabetes insipidus, 1943, 139: 700
- , INGRAM, W. R. and GROSS, E. G. Pituitary and adrenal in water and salt regulation, 1939, 127: 64
- , SATTLER, D. G. and INGRAM, W. R. Salt intake and polyuria of diabetes insipidus, 1940, 131: 363
- See INGRAM, W. R.
- See RICHTER, K. M.
- WINTER, H.: see WENER, J.
- WINTER, HELEN A. Fasting and tolerance to high carbohydrate feeding, 1946, 147: 228
- See INGLE, D. J.

- WINTER, I. C., VAN DOLAH, J. E. and CRANDALL, L. A., JR. Lowered serum lipid levels in Eck fistula dog, 1941, 133: 566
- WINTERNITZ, M. C.: *see* DURLACHER, S. H.
- *See* KATZENSTEIN, R.
- *See* MYLON, E.
- WINTROBE, M. M. Nutritive requirements of young pigs, 1939, 126: 375
- *See* KEMP, I.
- WIRTS, C. W., CANTAROW, A., SNAPE, W. J. and DELSERONE, B. Biliary excretion in liver damage, 1951, 165: 680
- *See* CANTAROW, A.
- WIRZ, H.: *see* LUDEMANN, H.
- WISANSKY, W. A.: *see* MARTIN, G. J.
- WISE, W., MEYER, JULIA, KATZ, L. N., LENDRUM, BESSIE and JOCHIM, K. Cardiac oxygen use and efficiency in heart failure, 1946, 147: 28
- *See* KATZ, L. N.
- WITHAM, A. C.: *see* HAMILTON, W. F.
- WITT, J. A.: *see* BUCHANAN, A. R.
- WITTEN, P. W.: *see* COUCH, J. R.
- WOLF, A. V. Dehydration by continuous administration of water, 1945, 143: 567
- Disposition of continuously administered salt, 1945, 143: 572
- Osmometric analysis of thirst, 1950, 161: 75
- Osmometric equation for fluid volumes, 1948, 153: 499
- Renal regulation and electrolytes, 1947, 148: 54
- Retention of infused chloride, urea and water, 1943, 138: 191
- and BALL, S. M. Calcium excretion, 1949, 158: 205
- and BALL, S. M. Renal excretion in the dog, 1950, 160: 353
- WOLF, G. A., JR.: *see* GEOHEGAN, W. A.
- WOLF, P. A. and CORLEY, R. C. Amino acids and nitrogen balance, 1939, 127: 589
- WOLF, R. L. and EADIE, G. S. Reabsorption of bromide by the kidney, 1950, 163: 436
- WOLF, S. and WOLFF, H. G. Correlation of functional changes in human stomach, 1943, 138: 309
- WOLFF, H. G.: *see* TORDA, CLARA
- *See* WOLF, S.
- WOLFF, R. C. and PENROD, K. E. Cooling rates in immersion hypothermia, 1950, 163: 580
- WOLFSON, W. Q.: *see* LEVINE, R.
- WOLLACK, A. C.: *see* GLADSTON, M.
- WOLLENBERGER, A. Energy-rich phosphate supply of failing heart, 1947, 150: 733
- and LINTON, M. A., JR. Metabolism of glucose in starvation and dehydration, 1947, 148: 597
- WOMAN (STUDIES OF—IN)
- *see also* MAN
- abdominal and arterial pressure during labor, 1938, 121: 640
- actomyosin of uterus, 1950, 160: 46
- basal metabolism, 1943, 139: 280; 1943, 140: 33
- blood picture, 1943, 138: 626
- body water, 1950, 162: 313
- center of gravity, 1938, 121: 465
- comparative responses of, to exercise, 1942, 137: 318
- diameter of red blood cells, 1940, 128: 382
- erythrocyte characteristics, 1944, 142: 727
- intracellular fluid, 1950, 162: 319
- menarche and basal physiological functions, 1943, 139: 288
- oxygen saturation of venous blood, 1938, 124: 15
- oxygen-hemoglobin dissociation curves, 1944, 142: 739
- physiology, 1943, 138: 364
- posture and metabolic rate, 1938, 122: 563
- renal function, 1939, 127: 731
- serum choline, 1949, 158: 345
- standing in, 1938, 121: 471
- transmission of iron to fetus, 1942, 137: 164
- urinary estrogens in menstrual cycle and pregnancy, 1938, 121: 98
- validity of ovulation potential, 1943, 140: 394
- WONG, S. K.: *see* FOLTZ, E. L.
- WONG, W.: *see* ADDIS, T.
- WOOD, E. C.: *see* KOSMAN, A. J.
- WOOD, E. H. and MOE, G. K. Effect of cardiac glycosides on blood electrolytes, 1942, 137: 6
- and MOE, G. K. Electrolyte and water content of perfused heart, 1942, 136: 515
- and MOE, G. K. Measurement of edema in the heart-lung preparation, 1942, 136: 506
- , COLLINS, D. A. and MOE, G. K. Electrolyte and water exchange in muscle and blood, 1940, 128: 635
- *See* COLLINS, D. A.
- *See* DENNIS, C.
- *See* GRIFFIN, G. D. J.
- *See* KOTKE, F. J.
- WOOD, H. G.: *see* LORBER, V.
- WOOD, I. R.: *see* WARREN, C. O.
- WOOD, J. E., JR.: *see* LANDIS, E. M.
- WOOD, MARTA E.: *see* BERRYMAN, G. H.
- WOODBURY, D. M. and DAVENPORT, VIRGINIA D. Cations and experimental seizures, 1949, 157: 234
- , CHENG, C.-P., SAYERS, G. and GOODMAN, L. S. Antagonism ACTH and ACE to DCA, 1950, 160: 217
- WOODBURY, L. A., HECHT, H. H. and CHRISTOPHERSON, A. R. Heart membrane resting and action potentials, 1951, 164: 307
- WOODBURY, R. A. Coordination of function in turtle heart, 1941, 132: 725
- and ABREU, B. E. Cardiovascular responses to oxytocic principle, 1944, 142: 114
- and ABREU, B. E. Circulatory effects of gasps, yawns and sighs, 1944, 142: 721
- and ROBERTSON, G. G. Variations of pulmonary arterial pressure of turtle, 1942, 137: 628
- , HAMILTON, W. F. and TORPIN, R. Abdominal and arterial pressure during labor, 1938, 121: 640
- , ROBINOW, M. and HAMILTON, W. F. Blood pressure studies on infants, 1938, 122: 472
- *See* HAMILTON, W. F.
- *See* VOLPITTO, P. P.
- WOODCOCK, C. C., JR.: *see* BERNTHAL, T.
- WOODWARD, BARBARA A.: *see* MCCANDLESS, ESTHER L.

WOODWARD, E. R., BIGELOW, R. R. and DRAGSTEDT, L. R. Resection of antrum and gastric secretion, 1950, 162: 99

— See DRAGSTEDT, L. R.

— See OBERHELMAN, H. A., JR.

WOLLEY, JEAN R.: see GROSSMAN, M. I.

WORK

see also EXERCISE

acclimatization to, in heat, 1943, 140: 171

action of nor-epinephrine and adrenal cortical steroids on, 1951, 165: 450

adrenals, 1949, 156: 365

adreno-cortical hormones, 1938, 121: 549; 1949, 157: 99

after adrenalectomy, salt diet, 1940, 129: 280

aging, 1945, 143: 423

anoxia, 1947, 151: 588

cobalt, 1943, 139: 401

benzedrine, 1942, 136: 395

biochemistry of muscle, 1941, 132: 341

blood pressure, pulse rate, 1939, 125: 619

blood volume, 1946, 146: 747

body size, energy exchange, 1942, 136: 364

carbon monoxide uptake, 1945, 143: 621

cardiac output in humid heat, 1940, 131: 54

circulation in, high altitude, 1941, 132: 555

cortin and hypophysectomized rats, 1938, 122: 302

cortin-like material from urine, 1943, 139: 742

cortisone, 1951, 166: 504

different environmental temperatures, 1946, 146: 337

dry heat and, sodium chloride, 1943, 140: 439

energy production at various temperatures, 1946, 146: 517

exhausting, body build and metabolism during, 1940, 129: 10

factors affecting in hot environment, 1944, 142: 254

fasting, 1945, 143: 151

glucose tolerance, 1948, 155: 15; 1950, 160: 506

heat and, water, adreno-cortical hormones, 1945, 143: 171

hormones and carbohydrate metabolism during, 1940, 130: 602

hypertrophy of adrenal cortex, 1938, 124: 627

hypophysectomy, 1938, 122: 302; 1938, 123: 620

internal factors, 1944, 141: 643

meals, 1946, 145: 408

of adrenalectomized rats maintained with adreno-cortical preparations, 1949, 156: 365

of severely diabetic rats, 1951, 165: 469

orthopedic handicap, 1947, 151: 405

period, in studies of fatigue, 1942, 136: 79

reactions to thermal environment, 1941, 134: 665

recovery, from work, internal factors, 1944, 141: 641

restricted B vitamins, 1945, 144: 12

respiration, alveolar air and, at high altitudes, 1947, 150: 210

severe heat and, rate of sweating, 1946, 147: 377

thermal balance in severe heat, 1947, 149: 483

time spent by blood in lung capillary, 1945, 143: 621

training, 1942, 136: 151; 1946, 146: 424

gelatin, 1941, 133: 163

volume of red corpuscles, 1947, 149: 181

WORTIS, J.: see HIMWICH, H. E.

WORZNIAK, J. J.: see GESELL, R.

WREN

infant, hypothermia, 1951, 166: 77

muscle tremor and body temperature in, 1942, 136: 621

oxygen consumption, body temperature, 1951, 166: 99

respiration rate, body temperature, 1951, 166: 97

WRENN, T. R.: see SYKES, J. F.

WRENSHALL, G. A., COLLINS-WILLIAMS, JEAN and BEST, C. H. Blood sugar changes after alloxan, 1950, 160: 228

—, COLLINS-WILLIAMS, JEAN and HARTROFT, W. S. Alloxan diabetes in the rat, 1949, 156: 100

WRIGHT, E. B. Asphyxiation and peripheral nerve polarization, 1947, 148: 174

— Effects of oxygen lack on peripheral nerve, 1946, 147: 78

WRIGHT, G. W., HALLARAN, W. R. and WIGGERS, C. J. Economy of effort index for the heart, 1939, 126: 89

WRIGHT, L. D., BEYER, K. H., SKEGGS, HELEN R., RUSSO, H. F. and PATCH, ELIZABETH A. Renal clearance of pantothenic acid, 1946, 145: 633

—, RUSSO, H. F., SKEGGS, HELEN R., PATCH, ELIZABETH A. and BEYER, K. H. Renal clearance of essential amino acids, 1947, 149: 130

— See BEYER, K. H.

WRIST

muscle activity of, 1947, 150: 599

WU, H. C. and VISSCHER, M. B. Blood pressure in the mouse, 1948, 153: 330

WYCIS, H. T.: see SPIEGEL, E. A.

WYMAN, L. C. and TUM SUDEN, CAROLINE. Adrenalectomy and adrenaline intoxication, 1939, 126: 7

— See SNYDER, J. G.

— See TUM SUDEN, CAROLINE

WYNIA, F.: see YOUNG, W. B.

WYNN, W. and HALDI, J. Changes in the skin and body on a high fat diet, 1944, 142: 508

— See BACHMANN, G.

— See HALDI, J.

X-IRRADIATION

adrenals, 1947, 150: 482

adrenocortical function, 1951, 167: 321

alkaline phosphatase of plasma and tissues, 1950, 163: 648

blood changes in and cysteine protection, 1951, 166: 15

blood coagulation and hemorrhage following, 1950, 161: 505

death, in mice, 1951, 164: 546

estrogens, 1949, 159: 269

exercise, 1951, 167: 626

intestinal motility, 1951, 165: 376

leukocyte count, 1945, 144: 284; 1951, 165: 345

lymph composition following, 1950, 163: 668

oxygen consumption of tissues, 1938, 122: 406

pyridoxine, 1950, 163: 394

X-IRRADIATION

- reticulo-endothelial system, 1951, 164: 822
- sensitivity of abdomen to, 1950, 161: 323
- serum iron concentration, 1951, 166: 380
- survival and adrenal shielding, 1951, 165: 57
- survival of adrenalectomized animals after, 1951, 167: 345
- temperature, 1948, 155: 388
- thermal fragility of erythrocytes, 1951, 164: 202
- thyroxine, 1951, 165: 641
- tolerance, exercise, 1951, 165: 662
- water, electrolyte balance, 1951, 164: 450

X-RAY (PICTURE)

- density of heart shadow, 1949, 156: 339
- diffraction of bones, 1945, 144: 632
- vitamin D, 1945, 143: 416
- hydrostatic pressures in radial acceleration, 1947, 151: 459
- motility of G-I tract in guinea pig, 1948, 152: 455
- of stomach, test meal and motility, 1947, 149: 107
- transport of sperm in female rabbit, 1939, 125: 573

XANTHATE

- blood pressure response to epinephrine, 1943, 140: 370

XANTHINES

- cardiovascular system and, as determined by radioactive krypton, 1945, 144: 166
- potassium secretion, 1950, 161: 155
- ultraviolet irradiation, 1951, 167: 367

XANTHOPTERIN

- bone marrow cells, 1948, 153: 496
- bone marrow cultures, 1948, 152: 175; 1948, 152: 652
- 7-carboxylic acid, bone marrow cells, 1948, 153: 496
- bone marrow cultures, 1948, 152: 654
- cell proliferation, 1948, 153: 488
- cell proliferation, 1948, 153: 488
- dihydro-, bone marrow cultures, 1948, 152: 654
- hemapoiesis, 1948, 153: 133
- in anemia, 1948, 152: 179
- iso-, -6-carboxylic acid, bone marrow cultures, 1948, 152: 654
- 7-methyl-, bone marrow cultures, 1948, 152: 654
- 6-methyl-iso-, bone marrow cultures, 1948, 152: 654
- neoplastic cell culture, 1948, 153: 493
- tissue cultures, 1948, 153: 488

XANTHOPTERIN-7-CARBOXYLIC ACID: *see* XANTHOPTERIN, —7-carboxylic acid

XANTHOSINE

- ultraviolet irradiation, 1951, 167: 367

XYLENE

- hair growth, 1940, 129: 554

XYLOSE

- absorption from gastro-intestinal tract, 1938, 123: 578
- factors affecting, 1940, 131: 39
- penetration into aqueous humour, 1942, 137: 423
- renal tubular reabsorption of, 1938, 122: 775
- urinary excretion following dehydration, 1949, 156: 435

Y

YAHN, CHARLOTTE: *see* HOFF, E. C.

YAMAMATO, W.: *see* SPEALMAN, C. R.

YANNET, H. Extracellular electrolytes and changes in brain, 1940, 128: 683

YARBROUGH, O. D.: *see* BEHNKE, A. R.

YAWNING

- circulation, 1944, 142: 721

YEAKEL, ELEANOR H., SHENKIN, H. A., ROTHBALLER, A. B. and MCCANN, S. McD. Auditory stress and blood pressure, 1948, 155: 118

— *See* FARRIS, E. J.

— *See* MCCANN, S. McD.

YEAST

- extract, gastric secretion, 1940, 131: 378
- factor in, essential for gonadal development, 1946, 145: 468
- feeding with alpha-estradiol, 1946, 145: 467
- food intake, hyperthyroidism, 1941, 132: 629
- liver function in hyperthyroidism, 1942, 136: 762
- protein content of heart, kidney and liver, 1940, 129: 687

YEE, Y. S.: *see* BISCHOFF, F.

YESINICK, L. and GELLHORN, E. Intracranial pressure and anoxia, 1939, 128: 185

— *See* GELLHORN, E.

YOHIMBINE

- renal hypertension, 1944, 141: 707
- respiration, action potential, 1950, 162: 461

YORK, G.: *see* HOMBURGER, E.

YORK, J. A.: *see* HOOKER, D. R.

YOU, S. S. and SELLERS, E. A. DCA and ACE in shock, 1950, 160: 83

— *See* SELLERS, E. A.

YOUMANS, W. B. Intestinal motility under adrenaline and sympathin, 1938, 123: 424

—, AUMANN, K. W. and HANEY, H. F. Adrenaline molecule and intestinal inhibition, 1939, 126: 237

—, AUMANN, K. W., HANEY, H. F. and WYNIA, F. Factors compensating acetylcholine inhibition, 1940, 128: 467

—, HANEY, H. F. and AUMANN, K. W. Cardiac effect of groups of the adrenaline molecule, 1940, 130: 190

—, KARSTENS, A. I. and AUMANN, K. W. Nerve supply and adrenaline-sensitivity of intestine, 1942, 137: 87

—, KARSTENS, A. I. and AUMANN, K. W. Nervous reflex regulation of intestinal pressure, 1942, 135: 619

—, MEEK, W. J. and HERRIN, R. C. Intestinal inhibition during intestinal distention, 1938, 124: 470

— *See* AUMANN, K. W.

— *See* HANEY, H. F.

— *See* PETERSON, CLARE G.

YOUNG, A. C.: *see* BLAIR, H. A.

YOUNG, C.: *see* RODBARD, S.

YOUNG, CHARLOTTE M., PITTMAN, MARTHA S., DONELSON, EVA G. and KINSMAN, GLADYS M. Variability of basal metabolism in women, 1943, 139: 280

- See PITTMAN, MARTHA S.
 YOUNG, D. R.: *see* COOK, S. F.
 YOUNG, F. G., WATERS, E. T., MARKOWITZ, J. and BEST, C. H. Carbohydrate derivatives in hypoglycemia, 1938, 124: 295
 YOUNG, GENEVIEVE and WALD, G. Vitamin A and sympathico-adrenal system, 1940, 131: 210
 YOUNG, L. E., PHILLIPS, W. A. and MURLIN, J. R. Absorption of insulin from alimentary tract, 1939, 128: 81
 — See CLIFFTON, E. E.
 — See PHILLIPS, W. A.
 YOUNG, W. C. and EMERY, F. E. Pelvic relaxation and acetylcholine, 1950, 162: 606
 YOUNG'S MODULUS
 comparison of, for ligamentum nuchae and aorta, 1939, 125: 3
 YRARRAZAVAL, S.: *see* FORTIER, C.
 YUEN, D. W., POO, L. J., LEW, W. and ADDIS, T. Protein anabolism in heart, kidney and liver, 1940, 129: 685
- Z**
Z-V GRADIENT: *see* HEART AURICLES
 ZACKS, S. I. and WELSH, J. H. Cholinesterases in rat liver mitochondria, 1951, 165: 620
 ZAK, EDITH: *see* GLICK, D.
 ZAMCHECK, N.: *see* DILL, D. B.
 ZARROW, M. X., HESTAND, W. A., STEMLER, F. W. and WIEBERS, J. E. Thyroid and anoxia in rats and mice, 1951, 167: 171
 — See JACOBSON, A.
 ZAWADZKI, E. S. and SMITH, A. H. Serum proteins and growth, 1941, 132: 362
 ZECKWER, ISOLDE T. Adrenals and gonads after thyroidectomy, 1938, 121: 224
 — Gonadal effect of pituitary secretion, 1939, 128: 169
 — Lymphatic tissue in shrinkage after insulin, 1948, 152: 267
 — Renal growth response to thyroidectomy, 1946, 145: 681
 — Thyroidectomy, gonadectomy and adrenal hypertrophy, 1938, 123: 266
 ZELDIS, L. J. Amniotin and progesterone on uterine weights, 1940, 129: 546
 ZELLE, K.: *see* GRAY, J. S.
 ZELLER, J. W., BYWATERS, E. G. L. and BAUER, W. Passage of substances from blood into joint spaces, 1941, 132: 150
 ZEPPLIN, MARIE T.: *see* MEYER, J. H.
 ZERBE, JOAN W.: *see* FRIEDGOOD, C. E.
 ZIEGLER, W. M.: *see* SCHWARZ, H.
 ZIERLER, K. L., GROB, D. and LILIENTHAL, J. L., JR. Blood clotting time, 1948, 153: 127
 — See EYZAGUIRRE, C.
 — See FOLK, B. P.
 ZILVERSMIT CRITERIA
 theory for product-precursor relations, 1951, 164: 13
 ZILVERSMIT, D. B., STERN, T. N. and OVERMAN, R. R. Adrenals and blood phospholipides, 1951, 164: 31
 ZIMMERMAN, W. J.: *see* GAEBLER, O. H.
 ZIMMERMANN, B. and DONOVAN, T. J. Hyperglycemic effect of insulin, 1948, 153: 197
- ZINC**
 augmentation of gonadotropins by, 1938, 121: 765
 combination with equine gonadotropin, 1945, 145: 28
 deficiency, in rats, 1938, 124: 750
 insulin, 1939, 125: 24
 insulin hypoglycemia, 1938, 121: 44
 of blood, 1938, 124: 753
 ZINKEN, NAOMI: *see* SCHWEIZER, MALVINA
 ZITTLE, C. A.: *see* HENLE, GERTRUDE
 ZUCKER, LOIS M. and ZUCKER, T. F. Reaction of bone growth to nutritional deficiencies, 1946, 146: 593
 — See ZUCKER, T. F.
 ZUCKER, MARJORIE B. Mechanism of hemostasis, 1947, 148: 275
 — Smooth muscle stimulants in blood serum and platelets, 1944, 142: 12
 —, CIZEK, L. J. and TOMPKINS, D. Hypoproteinemia and fluid compartments, 1950, 162: 162
 — See CIZEK, L. J.
 ZUCKER, T. F. and ZUCKER, LOIS M. Bone growth as related to age and body weight, 1946, 146: 585
 — See ZUCKER, LOIS M.
 ZWAARDEMAKER HYPOTHESIS
 test of, 1939, 125: 405
 ZWEIFACH, B. W. Perfusion of blood capillaries, 1940, 130: 512
 —, LOWENSTEIN, B. E. and CHAMBERS, R. Capillaries in acute hemorrhage, 1944, 142: 80
 —, METZ, D. B. and SHORR, E. VEM and VDM in resistance to trauma, 1951, 164: 91
 — See BAEZ, S.
 — See CHAMBERS, R.
 — See LEE, R. E.
 ZWEMER, R. L., VOLLMER, E. P. and CAREY, M. M. Glutathione protection against potassium, 1951, 164: 766